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2314	Towards a coastal ocean prediction system for the Danish domestic waters. <b>1999</b> , 195-222		1
2313	The time-mean circulation in the Agulhas region determined with the ensemble smoother. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 1393-1404		14

2312	Spatial regression and multiscale approximations for sequential data assimilation in ocean models. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 7991-8014	23
2311	An extended Kalman filter to assimilate satellite altimeter data into a nonlinear numerical model of the tropical Pacific Ocean: Method and validation. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 5441-5458	69
2310	Assimilation of TOPEX/Poseidon altimeter data into a global ocean circulation model: How good are the results?. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 25647-25665	86
2309	Data assimilation into nonlinear stochastic models. <b>1999</b> , 51, 167-194	73
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2307	Low-dimensional representation of error covariance. <b>2000</b> , 52, 533-553	9
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2299	Dynamical evolution of the error statistics with the SEEK filter to assimilate altimetric data in eddy-resolving ocean models. <b>2001</b> , 127, 233-253	19
2298	Optimality of variational data assimilation and its relationship with the Kalman filter and smoother. <b>2001</b> , 127, 661-683	74
2297	Can an ensemble transform Kalman filter predict the reduction in forecast-error variance produced by targeted observations?. <b>2001</b> , 127, 2803-2820	38
2296	Developments in Operational Shelf Sea Modelling in Danish Waters. <b>2001</b> , 53, 595-605	25
2295	A weak constraint inverse for a zero-dimensional marine ecosystem model. <b>2001</b> , 28, 19-44	26

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2293	Application of ensemble-based techniques in fish stock assessment. <b>2001</b> , 86, 517-526	17
2292	Improving the singular evolutive extended Kalman filter for strongly nonlinear models for use in ocean data assimilation. <b>2001</b> , 17, 1535-1559	12
2291	Variance Reduced Ensemble Kalman Filtering. <b>2001</b> , 129, 1718-1728	100
2290	Chapter 5 Data Assimilation by Models. <b>2001</b> , 237-xvii	18
2289	Extended versus Ensemble Kalman Filtering for Land Data Assimilation. <b>2002</b> , 3, 728-740	278
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2287	Adaptive Sampling with the Ensemble Transform Kalman Filter. Part II: Field Program Implementation. <b>2002</b> , 130, 1356-1369	85
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2285	A Partitioned Kalman Filter and Smoother. <b>2002</b> , 130, 1370-1383	139
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2283	Initial Testing of a Massively Parallel Ensemble Kalman Filter with the Poseidon Isopycnal Ocean General Circulation Model. <b>2002</b> , 130, 2951-2965	114
2282	An operational real-time eddy-resolving 1/16/spl deg/ global ocean nowcast/forecast system.	0
2281	Using Improved Background-Error Covariances from an Ensemble Kalman Filter for Adaptive Observations. <b>2002</b> , 130, 1552-1572	76
2280	A Reduced-Order Information Filter for Multilayer Shallow-Water Models: Profiling and Assimilation of Sea Surface Height. <b>2002</b> , 19, 517-533	14
2279	Analysis-Error Statistics of a Quasigeostrophic Model Using Three-Dimensional Variational Assimilation. <b>2002</b> , 130, 2777-2790	28
2278	Near-Well Reservoir Monitoring Through Ensemble Kalman Filter. <b>2002</b> ,	31
2277	Deriving catchment-scale water and energy balance parameters using data assimilation based on extended Kalman filtering. <b>2002</b> , 47, 449-467	15

2276 Ensemble Size, Balance, and Model-Error Representation in an Ensemble Kalman Filter\*. **2002**, 130, 2791-2808 210

2275 Land data assimilation and estimation of soil moisture using measurements from the Southern Great Plains 1997 Field Experiment. **2002**, 38, 35-1-35-18 205

2274 Hydrologic Data Assimilation with the Ensemble Kalman Filter. **2002**, 130, 103-114 669

2273 Assessing ocean-model sensitivity to wind forcing uncertainties. **2002**, 29, 5-1-5-4 9

2272 Atmospheric Modeling, Data Assimilation and Predictability. **2002**, xi-xiv

2271 Atmospheric Modeling, Data Assimilation and Predictability. **2002**, 1-31

2270 Atmospheric Modeling, Data Assimilation and Predictability. **2002**, 32-67

2269 Atmospheric Modeling, Data Assimilation and Predictability. **2002**, 68-126

2268 Atmospheric Modeling, Data Assimilation and Predictability. **2002**, 127-135

2267 Atmospheric Modeling, Data Assimilation and Predictability. **2002**, 205-260 3

2266 Atmospheric Modeling, Data Assimilation and Predictability. **2002**, 261-263

2265 Atmospheric Modeling, Data Assimilation and Predictability. **2002**, 264-275

2264 Atmospheric Modeling, Data Assimilation and Predictability. **2002**, 276-282

2263 Atmospheric Modeling, Data Assimilation and Predictability. **2002**, 283-327

2262 Atmospheric Modeling, Data Assimilation and Predictability. **2002**,

2261 A simplified reduced order Kalman filtering and application to altimetric data assimilation in Tropical Pacific. **2002**, 36, 101-127 113

2260 An Ensemble Kalman filter with a 1-D marine ecosystem model. **2002**, 36, 75-100 59

2259 Data assimilation of local model error forecasts in a deterministic model. **2002**, 39, 887-918 15

2258	Spatial-temporal nonlinear filtering based on hierarchical statistical models. <b>2002</b> , 11, 249-302	6
2257	. <b>2002</b> , 54, 406-425	24
2256	An integrated approach to hydrologic data assimilation: interpolation, smoothing, and filtering. <b>2002</b> , 25, 1275-1286	182
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2254	Discussion. <b>2002</b> , 29, 239-241	
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2252	Modelling of error covariances by 4D-Var data assimilation. <b>2003</b> , 129, 3167-3182	105
2251	The potential of the ensemble Kalman filter for NWP comparison with 4D-Var. <b>2003</b> , 129, 3183-3203	455
2250	Assimilation of ocean colour data into a biochemical model of the North Atlantic. <b>2003</b> , 40-41, 127-153	90
2249	A singular evolutive interpolated Kalman filter for efficient data assimilation in a 3-D complex physicalBiogeochemical model of the Cretan Sea. <b>2003</b> , 40-41, 213-231	39
2248	A demonstration of ensemble-based assimilation methods with a layered OGCM from the perspective of operational ocean forecasting systems. <b>2003</b> , 40-41, 253-289	78
2247	Assimilation of sea-surface temperature and altimetric observations during 1992-1993 into an eddy permitting primitive equation model of the North Atlantic Ocean. <b>2003</b> , 40-41, 291-316	53
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2245	An operational Eddy resolving 1/16° global ocean nowcast/forecast system. <b>2003</b> , 40-41, 341-361	51
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2243	A semi-evolutive filter with partially local correction basis for data assimilation in oceanography. <b>2003</b> , 26, 511-524	6
2242	A Bayesian approach to the ecosystem inverse problem. <b>2003</b> , 168, 39-55	42
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2239	Tuning of parameters in a two-phase flow model using an ensemble Kalman filter. <b>2003</b> , 29, 1283-1309	59
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2236	The assimilation of remotely sensed soil brightness temperature imagery into a land surface model using Ensemble Kalman Filtering: a case study based on ESTAR measurements during SGP97. <b>2003</b> , 26, 137-149	296
2235	A New Reduced Rank Square Root Kalman Filter for Data Assimilation in Mathematical Models. <b>2003</b> , 482-491	3
2234	Reduced-rank Kalman filters applied to an idealized model of the wind-driven ocean circulation. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,	12
2233	Variational assimilation of SSH variability from TOPEX/POSEIDON and ERS1 into an eddy-permitting model of the North Atlantic. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,	5
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2231	Improving the modeling of error variance evolution in the assimilation of chemical species: Application to MOPITT data. <b>2003</b> , 30,	8
2230	Space-time structure and dynamics of the forecast error in a coastal circulation model of the Gulf of Lions. <b>2003</b> , 36, 309-346	48
2229	Sequential Assimilation of ERS-1 SAR Data into a Coupled Land Surface Hydrological Model Using an Extended Kalman Filter. <b>2003</b> , 4, 473-487	69
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2124	Soil moisture initialization for climate prediction: Assimilation of scanning multifrequency microwave radiometer soil moisture data into a land surface model. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,	25
2123	Real-Time Data Assimilation for Operational Ensemble Streamflow Forecasting. <b>2006</b> , 7, 548-565	136
2122	Assimilation of Disaggregated Microwave Soil Moisture into a Hydrologic Model Using Coarse-Scale Meteorological Data. <b>2006</b> , 7, 1308-1322	86
2121	Hydrological forecasting uncertainty assessment: Incoherence of the GLUE methodology. <b>2006</b> , 330, 368-381	302
2120	Using ensemble prediction methods to examine regional climate variation under global warming scenarios. <b>2006</b> , 11, 174-192	12
2119	Parameter sensitivity of three Kalman filter schemes for assimilation of water levels in shelf sea models. <b>2006</b> , 11, 441-463	11
2118	The representer method, the ensemble Kalman filter and the ensemble Kalman smoother: A comparison study using a nonlinear reduced gravity ocean model. <b>2006</b> , 12, 378-400	18
2117	A simple method for reducing seasonal bias and drift in eddy resolving ocean models. <b>2006</b> , 13, 109-125	40
2116	Erratum to A simple method for reducing seasonal bias and drift in eddy resolving ocean models [Ocean Modelling 13 (2006) 109-125]. <b>2006</b> , 14, 122-138	7
2115	Ensemble forecasting and data assimilation: two problems with the same solution?. 157-180	8

2114	Ensemble-based atmospheric data assimilation. 124-156	62
2113	Approximating optimal state estimation. 181-216	2
2112	Use of Ensemble Kalman Filter to 3-Dimensional Reservoir Characterization during Waterflooding. <b>2006</b> ,	9
2111	Reservoir Characterization During Underbalanced Drilling (UBD): Methodology and Active Tests. <b>2006</b> , 11, 181-192	23
2110	Improvement of Modeled Soil Wetness Conditions and Turbulent Fluxes through the Assimilation of Observed Discharge. <b>2006</b> , 7, 458-477	110
2109	Tests of an Ensemble Kalman Filter for Mesoscale and Regional-Scale Data Assimilation. Part I: Perfect Model Experiments. <b>2006</b> , 134, 722-736	113
2108	History Matching Using the Ensemble Kalman Filter on a North Sea Field Case. <b>2006</b> ,	23
2107	Mixtures of Gaussians for Uncertainty Description in Bivariate Latent Heat Flux Proxies. <b>2006</b> , 7, 330-345	3
2106	An OSSE Framework Based on the Ensemble Square Root Kalman Filter for Evaluating the Impact of Data from Radar Networks on Thunderstorm Analysis and Forecasting. <b>2006</b> , 23, 46-66	120
2105	Model-Reduced Variational Data Assimilation. <b>2006</b> , 134, 2888-2899	59
2104	A Singular Vector Perspective of 4DVAR: The Spatial Structure and Evolution of Baroclinic Weather Systems. <b>2006</b> , 134, 3436-3455	10
2103	Computational Issues for Large-Scale Land Surface Data Assimilation Problems. <b>2006</b> , 7, 494-510	16
2102	Snow Data Assimilation via an Ensemble Kalman Filter. <b>2006</b> , 7, 478-493	174
2101	Incremental Analysis Update Implementation into a Sequential Ocean Data Assimilation System. <b>2006</b> , 23, 1729-1744	37
2100	Assimilation with an Ensemble Kalman Filter of Synthetic Radial Wind Data in Anisotropic Turbulence: Perfect Model Experiments. <b>2006</b> , 134, 618-637	4
2099	Assessing the Performance of the Ensemble Kalman Filter for Land Surface Data Assimilation. <b>2006</b> , 134, 2128-2142	95
2098	Boundary Conditions for Limited-Area Ensemble Kalman Filters. <b>2006</b> , 134, 2490-2502	165
2097	Four-Dimensional Data Assimilation and Balanced Dynamics. <b>2006</b> , 63, 1840-1858	14

2096	Quantifying Uncertainty for the PUNQ-S3 Problem in a Bayesian Setting With RML and EnKF. <b>2006</b> , 11, 506-515	97
2095	Health monitoring for strongly non-linear systems using the Ensemble Kalman filter. <b>2006</b> , 13, 245-259	48
2094	THIS ARTICLE HAS BEEN RETRACTEDThe Kalman filter for the pedologist's tool kit. <b>2006</b> , 57, 677-692	4
2093	The Kalman filter for the pedologist's tool kit. <b>2006</b> , 57, 758-773	9
2092	Data assimilation for magnetohydrodynamics systems. <b>2006</b> , 189, 242-259	7
2091	Bias aware Kalman filters: Comparison and improvements. <b>2006</b> , 29, 707-718	56
2090	Calibration framework for a Kalman filter applied to a groundwater model. <b>2006</b> , 29, 719-734	29
2089	Data assimilation for transient flow in geologic formations via ensemble Kalman filter. <b>2006</b> , 29, 1107-1122	260
2088	A derivative-free implementation of the extended Kalman filter. <b>2006</b> , 42, 1927-1934	31
2087	Sequential assimilation of 4D seismic data for reservoir description using the ensemble Kalman filter. <b>2006</b> , 53, 83-99	24
2086	Adaptive data assimilation including the effect of spatial variations in observation error. <b>2006</b> , 132, 1225-1257	19
2085	Impact of flow-dependent analysis-error covariance norms on extratropical singular vectors. <b>2006</b> , 132, 625-646	7
2084	Oracle-based optimization applied to climate model calibration. <b>2006</b> , 11, 31-43	11
2083	A Maximum Entropy Method for Particle Filtering. <b>2006</b> , 123, 1071-1128	20
2082	Waterflooding using closed-loop control. <b>2006</b> , 10, 37-60	90
2081	Modeling Multibody Systems with Uncertainties. Part I: Theoretical and Computational Aspects. <b>2006</b> , 15, 369-391	104
2080	Four-dimensional data assimilation method based on SVD: Theoretical aspect. <b>2006</b> , 83, 51-57	18
2079	Comparison of reduced-order, sequential and variational data assimilation methods in the tropical Pacific Ocean. <b>2006</b> , 56, 624-633	10

2078	The SEEK filter method for data assimilation in oceanography: a synthesis. <b>2006</b> , 56, 650-661	51
2077	Using sea-level data to constrain a finite-element primitive-equation ocean model with a local SEIK filter. <b>2006</b> , 56, 634-649	43
2076	Assimilating remotely sensed snow observations into a macroscale hydrology model. <b>2006</b> , 29, 872-886	324
2075	Application of ensemble kalman filter to geophysical parameters retrieval in remote sensing: A case study of kernel-driven BRDF model inversion. <b>2006</b> , 49, 632-640	6
2074	Assimilation of GMS-5 satellite winds using nudging method with MM5. <b>2006</b> , 24, 215-224	1
2073	The forecasting journals and their contribution to forecasting research: Citation analysis and expert opinion. <b>2006</b> , 22, 415-432	23
2072	Sequential data assimilation in an upwelling influenced estuary. <b>2006</b> , 60, 317-329	27
2071	A hybrid multivariate Normal and lognormal distribution for data assimilation. <b>2006</b> , 7, 43-46	43
2070	Ensemble-Based Simultaneous State and Parameter Estimation in a Two-Dimensional Sea-Breeze Model. <b>2006</b> , 134, 2951-2970	100
2069	Estimate Irrigation Water Use by Data Assimilation. <b>2006</b> , 1	1
2068	The Ensemble Kalman Filter for Continuous Updating of Reservoir Simulation Models. <b>2006</b> , 128, 79-87	115
2067	A Method for Assimilating Lagrangian Data into a Shallow-Water-Equation Ocean Model. <b>2006</b> , 134, 1081-1101	57
2066	Data-Driven Power System Operations. <b>2006</b> , 448-455	6
2065	Development of a Land Data Assimilation System for Assimilating AMSR-E Brightness Temperature Observations - System Implementation and Numerical Tests at the CEOP Reference Sites. <b>2006</b> ,	
2064	Impact of Incorrect Model Error Assumptions on the Sequential Assimilation of Remotely Sensed Surface Soil Moisture. <b>2006</b> , 7, 421-432	114
2063	Evaluating nonlinear Kalman filters for parameter estimation in reservoirs during petroleum well drilling. <b>2006</b> ,	4
2062	Applying a Recursive Update Algorithm to a Distributed Hydrologic Model. <b>2007</b> , 12, 336-344	10
2061	System Design and Evaluation of Coupled Ensemble Data Assimilation for Global Oceanic Climate Studies. <b>2007</b> , 135, 3541-3564	295



2060	Assimilating Vortex Position with an Ensemble Kalman Filter. <b>2007</b> , 135, 1828-1845	70
2059	Multiple-Radar Data Assimilation and Short-Range Quantitative Precipitation Forecasting of a Squall Line Observed during IHOP_2002. <b>2007</b> , 135, 3381-3404	114
2058	Evaluation of Variational and Markov Chain Monte Carlo Methods for Inference in Partially Observed Stochastic Dynamic Systems. <b>2007</b> ,	2
2057	Efficient estimation and ensemble generation in climate modelling. <b>2007</b> , 365, 2077-88	29
2056	A Comparison of Hybrid Ensemble Transform Kalman Filter, Optimum Interpolation and Ensemble Square Root Filter Analysis Schemes. <b>2007</b> , 135, 1055-1076	96
2055	Technical Note: The air quality modeling system Polyphemus. <b>2007</b> , 7, 5479-5487	115
2054	Evaluating model performance of an ensemble-based chemical data assimilation system during INTEX-B field mission. <b>2007</b> , 7, 5695-5710	51
2053	Dynamic consistency and Lagrangian data in oceanography: mapping, assimilation, and optimization schemes. 204-230	
2052	On the Theoretical Equivalence of Differently Proposed Ensemble, 3DVAR Hybrid Analysis Schemes. <b>2007</b> , 135, 222-227	111
2051	Tests of an Ensemble Kalman Filter for Mesoscale and Regional-Scale Data Assimilation. Part II: Imperfect Model Experiments. <b>2007</b> , 135, 1403-1423	121
2050	A Transformed Lagged Ensemble Forecasting Technique for Increasing Ensemble Size. <b>2007</b> , 135, 1424-1438	7
2049	Sequential State and Variance Estimation within the Ensemble Kalman Filter. <b>2007</b> , 135, 3194-3208	23
2048	Elucidating Model Inadequacies in a Cloud Parameterization by Use of an Ensemble-Based Calibration Framework. <b>2007</b> , 135, 4077-4096	36
2047	Probabilistic Evaluation of the Dynamics and Predictability of the Mesoscale Convective Vortex of 10 June 2003. <b>2007</b> , 135, 1544-1563	42
2046	Dynamic Reservoir Data Assimilation With an Efficient, Dimension-Reduced Kalman Filter. <b>2007</b> , 12, 108-117	36
2045	Local Ensemble Transform Kalman Filtering with an AGCM at a T159/L48 Resolution. <b>2007</b> , 135, 3841-3861	199
2044	PBL State Estimation with Surface Observations, a Column Model, and an Ensemble Filter. <b>2007</b> , 135, 2958-2972	25
2043	On Some Aspects of the Definition of Initial Conditions for Ensemble Prediction. <b>2007</b> , 135, 3260-3272	30

2042	Assessing the Uncertainty in Reservoir Description and Performance Predictions With the Ensemble Kalman Filter. <b>2007</b> , 12, 382-391	75
2041	Validation of an EnKF System for OGCM Initialization Assimilating Temperature, Salinity, and Surface Height Measurements. <b>2007</b> , 135, 125-139	24
2040	STATE ESTIMATION OF A LARGE-SCALE SYSTEM IN THE PETROLEUM INDUSTRY: THE ENSEMBLE KALMAN FILTER FOR UPDATING RESERVOIR MODELS. <b>2007</b> , 40, 147-152	
2039	A Singular Evolutive Interpolated Kalman Filter for Rapid Uncertainty Quantification. <b>2007</b> ,	6
2038	A Stochastic Optimization Algorithm for Automatic History Matching. <b>2007</b> , 12, 196-208	46
2037	The Impact of Multisatellite Data on the Initialization and Simulation of Hurricane Liliï (2002) Rapid Weakening Phase. <b>2007</b> , 135, 526-548	61
2036	Surface Data Assimilation Using an Ensemble Kalman Filter Approach with Initial Condition and Model Physics Uncertainties. <b>2007</b> , 135, 1846-1868	104
2035	Comparison and Sensitivity of ODASI Ocean Analyses in the Tropical Pacific. <b>2007</b> , 135, 2242-2264	19
2034	Experimental Implementation of an Ensemble Adjustment Filter for an Intermediate ENSO Model. <b>2007</b> , 20, 4638-4658	19
2033	A Hybrid Kalman Filter Algorithm for Large-Scale Atmospheric Chemistry Data Assimilation. <b>2007</b> , 135, 140-151	13
2032	Improved Vertical Covariance Estimates for Ensemble-Filter Assimilation of Near-Surface Observations. <b>2007</b> , 135, 1021-1036	25
2031	An Ensemble-Based Smoother with Retrospectively Updated Weights for Highly Nonlinear Systems. <b>2007</b> , 135, 186-202	13
2030	History Matching and Production Forecast Uncertainty by Means of the Ensemble Kalman Filter: A Real Field Application. <b>2007</b> ,	52
2029	Estimation of Initial Fluid Contacts by Assimilation of Production Data With EnKF. <b>2007</b> ,	55
2028	Incorporating 4D Seismic Data in Reservoir Simulation Models Using Ensemble Kalman Filter. <b>2007</b> , 12, 282-292	153
2027	History Matching with an Ensemble Kalman Filter and Discrete Cosine Parameterization. <b>2007</b> ,	13
2026	Using the EnKF for Assisted History Matching of a North Sea Reservoir Model. <b>2007</b> ,	99
2025	. <b>2007</b> ,	6

2024	Production Optimization in Closed-Loop Reservoir Management. <b>2007</b> ,	21
2023	Bred-ensemble ocean forecast of loop current and rings. <b>2007</b> , 17, 300-326	38
2022	Suppressing bias and drift of coastal circulation models through the assimilation of seasonal climatologies of temperature and salinity. <b>2007</b> , 27, 1303-1316	27
2021	A review on reflective remote sensing and data assimilation techniques for enhanced agroecosystem modeling. <b>2007</b> , 9, 165-193	381
2020	An Iterative Ensemble Kalman Filter for Multiphase Fluid Flow Data Assimilation. <b>2007</b> , 12, 438-446	237
2019	Robust System Identification of Strongly Non-linear Dynamics Using a Polynomial Chaos-Based Sequential Data Assimilation Technique. <b>2007</b> ,	8
2018	An efficient method for statistical circuit simulation. <b>2007</b> ,	
2017	The use of the multi-model ensemble in probabilistic climate projections. <b>2007</b> , 365, 2053-75	1079
2016	Scalable Implementations of Ensemble Filter Algorithms for Data Assimilation. <b>2007</b> , 24, 1452-1463	109
2015	From Near-Surface to Root-Zone Soil Moisture Using Different Assimilation Techniques. <b>2007</b> , 8, 194-206	134
2014	Dynamic Calibration with an Ensemble Kalman Filter Based Data Assimilation Approach for Root-Zone Moisture Predictions. <b>2007</b> , 8, 910-921	14
2013	Flood inundation model updating using an ensemble Kalman filter and spatially distributed measurements. <b>2007</b> , 336, 401-415	70
2012	An objective ocean temperature and salinity analysis using covariances from a global climate model. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,	99
2011	Treatment of uncertainty using ensemble methods: Comparison of sequential data assimilation and Bayesian model averaging. <b>2007</b> , 43,	223
2010	Identifying the radiation belt source region by data assimilation. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a	58
2009	Observing system simulation experiments in geomagnetic data assimilation. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,	21
2008	Assimilating synthetic CryoSat sea ice thickness in a coupled ice-ocean model. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,	40
2007	Mesoscale model performance with assimilation of wind profiler data: Sensitivity to assimilation parameters and network configuration. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,	9

2006	Fitting model fields to observations by using singular value decomposition: An ensemble-based 4DVar approach. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,	31
2005	Carbon flux bias estimation employing Maximum Likelihood Ensemble Filter (MLEF). <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,	68
2004	Branch prediction and speculative execution: A magnetospheric data assimilation scheme for space weather forecasting. <b>2007</b> , 5, n/a-n/a	4
2003	Uncertainty in hydrologic modeling: Toward an integrated data assimilation framework. <b>2007</b> , 43,	519
2002	Prospects for river discharge and depth estimation through assimilation of swath-altimetry into a raster-based hydrodynamics model. <b>2007</b> , 34,	186
2001	Error modeling of simulated reflectivity observations for ensemble Kalman filter assimilation of convective storms. <b>2007</b> , 34,	12
2000	Representative-based variational data assimilation in a nonlinear model of nearshore circulation. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,	19
1999	Data assimilation of incoherent scatter radar observation into a one-dimensional midlatitude ionospheric model by applying ensemble Kalman filter. <b>2007</b> , 42,	27
1998	Development of a One-way Nested Global-regional Air Quality Forecasting Model. <b>2007</b> , 3, 81-84	26
1997	The AFES-LETKF Experimental Ensemble Reanalysis: ALERA. <b>2007</b> , 3, 45-48	26
1996	Marine geochemical data assimilation in an efficient Earth System Model of global biogeochemical cycling. <b>2007</b> , 4, 87-104	160
1995	A Data Assimilation Case Study Using a Limited-Area Ensemble Kalman Filter. <b>2007</b> , 135, 1455-1473	31
1994	On the Use of Ensemble Kalman Filters to Predict Stream Discharge at Barton Springs, Edwards Aquifer, Texas. <b>2007</b> ,	1
1993	A reduced-order approach to four-dimensional variational data assimilation using proper orthogonal decomposition. <b>2007</b> , 53, 1571-1583	151
1992	Exploring the need for localization in ensemble data assimilation using a hierarchical ensemble filter. <b>2007</b> , 230, 99-111	214
1991	Graphical models for statistical inference and data assimilation. <b>2007</b> , 230, 72-87	38
1990	Efficient data assimilation for spatiotemporal chaos: A local ensemble transform Kalman filter. <b>2007</b> , 230, 112-126	892
1989	Estimation of high-dimensional prior and posterior covariance matrices in Kalman filter variants. <b>2007</b> , 98, 227-255	248

1988	Analysis of parallelizable resampling algorithms for particle filtering. <b>2007</b> , 87, 3155-3174	50
1987	How good is an ensemble at capturing truth? Using bounding boxes for forecast evaluation. <b>2007</b> , 133, 1309-1325	14
1986	Applications of information theory in ensemble data assimilation. <b>2007</b> , 133, 1533-1545	33
1985	Flow-adaptive moderation of spurious ensemble correlations and its use in ensemble-based data assimilation. <b>2007</b> , 133, 2029-2044	79
1984	Flash flood forecasting: What are the limits of predictability?. <b>2007</b> , 133, 3-23	173
1983	Filtering properties of wavelets for local background-error correlations. <b>2007</b> , 133, 363-379	51
1982	Observing-system impact assessment using a data assimilation ensemble technique: application to the ADMÆolus wind profiling mission. <b>2007</b> , 133, 381-390	47
1981	Spectral and spatial localization of background-error correlations for data assimilation. <b>2007</b> , 133, 615-630	58
1980	Data assimilation in the FOAM operational short-range ocean forecasting system: a description of the scheme and its impact. <b>2007</b> , 133, 981-995	129
1979	Ensemble-based chemical data assimilation. I: General approach. <b>2007</b> , 133, 1229-1243	61
1978	Adaptive ensemble reduction and inflation. <b>2007</b> , 133, 1281-1294	31
1977	Soil Moisture Data Assimilation Using Support Vector Machines and Ensemble Kalman Filter1. <b>2007</b> , 43, 1004-1015	37
1976	A comparative study of 4D-VAR and a 4D Ensemble Kalman Filter: perfect model simulations with Lorenz-96. <b>2007</b> , 59, 96-100	81
1975	A non-Gaussian Ensemble Filter for Assimilating Infrequent Noisy Observations. <b>2007</b> , 59, 225-237	29
1974	Assimilating non-local observations with a local ensemble Kalman filter. <b>2007</b> , 59, 719-730	40
1973	Inter-comparing five forecast operational systems in the North Atlantic and Mediterranean basins: The MERSEA-strand1 methodology. <b>2007</b> , 65, 354-375	21
1972	Assessment of sea surface temperature observational networks in the Baltic Sea and North Sea. <b>2007</b> , 65, 314-335	27
1971	Data assimilation with the Ensemble Kalman Filter and the SEIK filter applied to a finite element model of the North Atlantic. <b>2007</b> , 65, 288-298	16

1970	Assimilation of sea surface temperature in the POL Coastal Ocean Modelling System. <b>2007</b> , 65, 27-40	8
1969	Multivariate assimilation in MERCATOR project: New statistical parameters from forecast error estimation. <b>2007</b> , 65, 430-449	4
1968	1/32° real-time global ocean prediction and value-added over 1/16° resolution. <b>2007</b> , 65, 3-26	41
1967	Assimilation of SeaWiFS data into a global ocean-biogeochemical model using a local SEIK filter. <b>2007</b> , 68, 237-254	59
1966	Application of an Ensemble Kalman filter to a 1-D coupled hydrodynamic-ecosystem model of the Ligurian Sea. <b>2007</b> , 68, 327-348	16
1965	Bayesian statistical data assimilation for ecosystem models using Markov Chain Monte Carlo. <b>2007</b> , 68, 439-456	51
1964	A Dynamic Data Driven Wildland Fire Model. <b>2007</b> , 1042-1049	13
1963	Revisiting the latent heat nudging scheme for the rainfall assimilation of a simulated convective storm. <b>2007</b> , 98, 195-215	27
1962	An explicit four-dimensional variational data assimilation method. <b>2007</b> , 50, 1232-1240	14
1961	Optimal estimation of irrigation schedule [An example of quantifying human interferences to hydrologic processes. <b>2007</b> , 30, 1844-1857	29
1960	A survey of numerical methods for nonlinear filtering problems. <b>2007</b> , 230, 27-36	66
1959	A Bayesian tutorial for data assimilation. <b>2007</b> , 230, 1-16	217
1958	On stochastic parameter estimation using data assimilation. <b>2007</b> , 230, 88-98	39
1957	Predicting air quality: Improvements through advanced methods to integrate models and measurements. <b>2008</b> , 227, 3540-3571	110
1956	History matching with an ensemble Kalman filter and discrete cosine parameterization. <b>2008</b> , 12, 227-244	108
1955	A Direct Inverse Model to Determine Permeability Fields from Pressure and Flow Rate Measurements. <b>2008</b> , 40, 907-920	13
1954	Estimation of model errors generated by atmospheric forcings for ocean data assimilation: experiments in a regional model of the Bay of Biscay. <b>2008</b> , 58, 1-17	5
1953	Initial ensemble generation and validation for ocean data assimilation using HYCOM in the Pacific. <b>2008</b> , 58, 81-99	13

1952	Estimation of friction parameters and laws in 1.5D shallow-water gravity currents on the f-plane, by data assimilation. <b>2008</b> , 58, 247-257	9
1951	The MOGREPS short-range ensemble prediction system. <b>2008</b> , 134, 703-722	320
1950	Spatial averaging of ensemble-based background-error variances. <b>2008</b> , 134, 1003-1014	33
1949	The Maximum Likelihood Ensemble Filter as a non-differentiable minimization algorithm. <b>2008</b> , 134, 1039-1050	53
1948	Atmospheric turbulence component of the innovation covariance. <b>2008</b> , 134, 931-940	6
1947	A hybrid grid/particle filter for Lagrangian data assimilation. I: Formulating the passive scalar approximation. <b>2008</b> , 134, 1539-1550	7
1946	A hybrid grid/particle filter for Lagrangian data assimilation. II: Application to a model vortex flow. <b>2008</b> , 134, 1551-1565	3
1945	The ensemble Kalman filter in an operational regional NWP system: preliminary results with real observations. <b>2008</b> , 134, 1733-1744	21
1944	Reconciling theory with observations: elements of a diagnostic approach to model evaluation. <b>2008</b> , 22, 3802-3813	433
1943	Unbiased ensemble square root filters. <b>2008</b> , 237, 1021-1028	82
1942	Modified particle filter methods for assimilating Lagrangian data into a point-vortex model. <b>2008</b> , 237, 1498-1506	29
1941	A wildland fire model with data assimilation. <b>2008</b> , 79, 584-606	83
1940	Experiments of one-dimensional soil moisture assimilation system based on ensemble Kalman filter. <b>2008</b> , 112, 888-900	84
1939	On numerical properties of the ensemble Kalman filter for data assimilation. <b>2008</b> , 197, 3574-3583	27
1938	A numerical comparative study on data assimilation using Kalman filters. <b>2008</b> , 55, 2247-2265	
1937	Investigation of flow and transport processes at the MADE site using ensemble Kalman filter. <b>2008</b> , 31, 975-986	83
1936	Hydrological data assimilation with the ensemble Kalman filter: Use of streamflow observations to update states in a distributed hydrological model. <b>2008</b> , 31, 1309-1324	331
1935	An investigation into the application of an ensemble Kalman smoother to high-dimensional geophysical systems. <b>2008</b> , 60, 97-112	32

1934	Using flow geometry for drifter deployment in Lagrangian data assimilation. <b>2008</b> , 60, 321-335	30
1933	. <b>2008</b> , 60, 716-727	2
1932	Data assimilation in a system with two scalesCombining two initialization techniques. <b>2008</b> , 61, 539-549	18
1931	Using the ensemble Kalman filter to estimate multiplicative model parameters. <b>2008</b> , 61, 601-609	33
1930	Dynamic Tomographic Imaging of the Solar Corona. <b>2008</b> , 2, 755-766	10
1929	Optimization of ecosystem model parameters through assimilating eddy covariance flux data with an ensemble Kalman filter. <b>2008</b> , 217, 157-173	88
1928	An improved state-parameter analysis of ecosystem models using data assimilation. <b>2008</b> , 219, 317-326	26
1927	Inverse Modeling of Subsurface Flow and Transport Properties: A Review with New Developments. <b>2008</b> , 7, 843-864	158
1926	Data Assimilation Methods for Land Surface Variable Estimation. <b>2008</b> , 313-339	16
1925	A Bayesian approach to decision-making under uncertainty: An application to real-time forecasting in the river Rhine. <b>2008</b> , 356, 56-69	66
1924	Soil moisture updating by Ensemble Kalman Filtering in real-time flood forecasting. <b>2008</b> , 357, 228-242	155
1923	Crop LAI Retrieval from MODIS Bidirectional Reflectance Observations using the Particle Filter Algorithm and a Crop Growth Model. <b>2008</b> ,	
1922	Detection of structural inadequacy in process-based hydrological models: A particle-filtering approach. <b>2008</b> , 44,	50
1921	Improving the operational forecasting system of the stratified flow in Osaka Bay using an ensemble Kalman filterBased steady state Kalman filter. <b>2008</b> , 44,	20
1920	Balanced multivariate model errors of an intermediate coupled model for ensemble Kalman filter data assimilation. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,	25
1919	Time-expanded sampling for ensemble-based filters: Assimilation experiments with a shallow-water equation model. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,	11
1918	Enhancing the estimation of continental-scale snow water equivalent by assimilating MODIS snow cover with the ensemble Kalman filter. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,	49
1917	EAKF-CMAQ: Introduction and evaluation of a data assimilation for CMAQ based on the ensemble adjustment Kalman filter. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,	9



1916	Model bias correction for dust storm forecast using ensemble Kalman filter. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,	15
1915	Real-time groundwater flow modeling with the Ensemble Kalman Filter: Joint estimation of states and parameters and the filter inbreeding problem. <b>2008</b> , 44,	195
1914	Parallelization of the Fvcom Coastal Ocean Model. <b>2008</b> , 22, 177-193	37
1913	A Simulation Study Using a Local Ensemble Transform Kalman Filter for Data Assimilation in New York Harbor. <b>2008</b> , 25, 1638-1656	9
1912	EnVE: A new estimation algorithm for weather forecasting and flow control. <b>2008</b> ,	2
1911	An analysis of the error space of a high-resolution implementation of the GHER hydrodynamic model in the Mediterranean Sea. <b>2008</b> , 24, 46-64	8
1910	Estimation of global CO2 fluxes at regional scale using the maximum likelihood ensemble filter. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,	34
1909	Numerical modelling of the suspended sediment transport in Torres Strait. <b>2008</b> , 28, 2241-2256	28
1908	Estimation of bathymetric depth and slope from data assimilation of swath altimetry into a hydrodynamic model. <b>2008</b> , 35,	146
1907	A Bayesian approach to snow water equivalent reconstruction. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,	46
1906	A comparison study of data assimilation algorithms for ozone forecasts. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,	70
1905	An ensemble-based explicit four-dimensional variational assimilation method. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,	69
1904	Remote sensing data assimilation for a prognostic phenology model. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,	136
1903	On the value of soil moisture measurements in vadose zone hydrology: A review. <b>2008</b> , 44,	423
1902	Comparison of adaptive filtering techniques for land surface data assimilation. <b>2008</b> , 44,	46
1901	On Analysis Error Covariances in Variational Data Assimilation. <b>2008</b> , 30, 1847-1874	46
1900	A Reanalysis of Ocean Climate Using Simple Ocean Data Assimilation (SODA). <b>2008</b> , 136, 2999-3017	1352
1899	Fuzzy Particle Filtering for Uncertain Systems. <b>2008</b> , 16, 1114-1129	16

1898	Remote sensing data assimilation in environmental models. <b>2008,</b>	1
1897	Recent Advances On Soil Moisture Data Assimilation. <b>2008,</b> 29, 19-37	32
1896	On modeling and observer design of fluid flow dynamics for petroleum drilling operations. <b>2008,</b>	3
1895	Asymptotic convergence of the ensemble Kalman filter. <b>2008,</b>	8
1894	The Improved Ensemble Kalman Filter for Multisensor Target Tracking. <b>2008,</b>	1
1893	Flood warning - on the value of local information. <b>2008,</b> 6, 41-50	32
1892	Kalman filter control of a model of spatiotemporal cortical dynamics. <b>2008,</b> 5, 1-8	73
1891	Simultaneous Estimation of Microphysical Parameters and Atmospheric State with Simulated Radar Data and Ensemble Square Root Kalman Filter. Part I: Sensitivity Analysis and Parameter Identifiability. <b>2008,</b> 136, 1630-1648	89
1890	The Inverse Ocean Modeling System. Part I: Implementation. <b>2008,</b> 25, 1608-1622	15
1889	Development of an Aerosol Retrieval Method: Description and Preliminary Tests. <b>2008,</b> 47, 2760-2776	6
1888	Prediction of Convective Initiation and Storm Evolution on 12 June 2002 during IHOP_2002. Part I: Control Simulation and Sensitivity Experiments. <b>2008,</b> 136, 2261-2282	19
1887	Contribution of a Wide-Swath Altimeter in a Shelf Seas Assimilation System: Impact of the Satellite Roll Errors. <b>2008,</b> 25, 2133-2144	10
1886	Using Precipitation Observations in a Mesoscale Short-Range Ensemble Analysis and Forecasting System. <b>2008,</b> 23, 357-372	5
1885	Two-Sample Kalman Filter for Steady-State Data Assimilation. <b>2008,</b> 136, 4503-4516	3
1884	A Simple Data Assimilation System for Complex Snow Distributions (SnowAssim). <b>2008,</b> 9, 989-1004	77
1883	Assimilation of Simulated Polarimetric Radar Data for a Convective Storm Using the Ensemble Kalman Filter. Part II: Impact of Polarimetric Data on Storm Analysis. <b>2008,</b> 136, 2246-2260	68
1882	An Ensemble-Based Four-Dimensional Variational Data Assimilation Scheme. Part I: Technical Formulation and Preliminary Test. <b>2008,</b> 136, 3363-3373	166
1881	The Benefits of Multianalysis and Poor Man's Ensembles. <b>2008,</b> 136, 4113-4129	19

1880	A Probabilistic Theory for Balance Dynamics. <b>2008</b> , 65, 2949-2960	7
1879	An Ensemble Multiscale Filter for Large Nonlinear Data Assimilation Problems. <b>2008</b> , 136, 678-698	34
1878	Simultaneous Estimation of Microphysical Parameters and Atmospheric State with Simulated Radar Data and Ensemble Square Root Kalman Filter. Part II: Parameter Estimation Experiments. <b>2008</b> , 136, 1649-1668	60
1877	Tests of an Ensemble Kalman Filter for Mesoscale and Regional-Scale Data Assimilation. Part III: Comparison with 3DVAR in a Real-Data Case Study. <b>2008</b> , 136, 522-540	129
1876	Tests of an Ensemble Kalman Filter for Mesoscale and Regional-Scale Data Assimilation. Part IV: Comparison with 3DVAR in a Month-Long Experiment. <b>2008</b> , 136, 3671-3682	92
1875	A Hybrid ETKFBDVAR Data Assimilation Scheme for the WRF Model. Part I: Observing System Simulation Experiment. <b>2008</b> , 136, 5116-5131	207
1874	Time-Expanded Sampling for Ensemble Kalman Filter: Assimilation Experiments with Simulated Radar Observations. <b>2008</b> , 136, 2651-2667	18
1873	Assimilating Remote Sensing based Soil Moisture in an Ecosystem Model (BEPS) for Agricultural Drought Assessment. <b>2008</b> ,	1
1872	Integrating Remote Sensing Information Into A Distributed Hydrological Model for Improving Water Budget Predictions in Large-scale Basins through Data Assimilation. <b>2008</b> , 8, 4441-4465	32
1871	Generating Facies Maps by Assimilating Production Data and Seismic Data With the Ensemble Kalman Filter. <b>2008</b> ,	47
1870	Efficient Ensemble-Based Closed-Loop Production Optimization. <b>2008</b> ,	44
1869	History Matching Using the Ensemble Kalman Filter on a North Sea Field Case. <b>2008</b> , 13, 382-391	63
1868	Streamline-Assisted Ensemble Kalman Filter for Rapid and Continuous Reservoir Model Updating. <b>2008</b> , 11, 1046-1060	40
1867	Implications of the Form of the Ensemble Transformation in the Ensemble Square Root Filters. <b>2008</b> , 136, 1042-1053	123
1866	An Ensemble Kalman Filter for severe dust storm data assimilation over China. <b>2008</b> , 8, 2975-2983	52
1865	Four-dimensional variational data assimilation for inverse modelling of atmospheric methane emissions: method and comparison with synthesis inversion. <b>2008</b> , 8, 6341-6353	132
1864	A Dual-Weighted Approach to Order Reduction in 4DVAR Data Assimilation. <b>2008</b> , 136, 1026-1041	61
1863	A New Approximate Solution of the Optimal Nonlinear Filter for Data Assimilation in Meteorology and Oceanography. <b>2008</b> , 136, 317-334	93

1862	An Efficient Dual-Resolution Approach for Ensemble Data Assimilation and Tests with Simulated Doppler Radar Data. <b>2008</b> , 136, 945-963	34
1861	Error Covariance Modeling in the GMAO Ocean Ensemble Kalman Filter. <b>2008</b> , 136, 2964-2982	26
1860	Hydrologic Remote Sensing and Land Surface Data Assimilation. <b>2008</b> , 8, 2986-3004	144
1859	Comparison of Statistical Dynamical, Square Root and Ensemble Kalman Filters. <b>2008</b> , 10, 684-721	16
1858	DATA ASSIMILATION OF A DISTRIBUTED RAINFALL-RUNOFF PREDICTION SYSTEM BY KALMAN FILTER WITH BIAS CORRECTION. <b>2008</b> , 64, 226-239	2
1857	Comparison of Data Assimilation Techniques for a Coupled Model of Surface and Subsurface Flow. <b>2009</b> , 8, 837-845	22
1856	Efficient implementations of a pseudodynamical stochastic filtering strategy for static elastography. <b>2009</b> , 36, 3470-6	8
1855	Application of the Gaussian anamorphosis to assimilation in a 3-D coupled physical-ecosystem model of the North Atlantic with the EnKF: a twin experiment. <b>2009</b> , 5, 495-510	86
1854	Data assimilation for heterogeneous networks: the consensus set. <b>2009</b> , 79, 051909	16
1853	Kalman meets neuron: the emerging intersection of control theory with neuroscience. <b>2009</b> , 2009, 3318-21	12
1852	An Automatic History Matching Module with Distributed and Parallel Computing. <b>2009</b> , 27, 1092-1108	7
1851	Tracking and control of neuronal Hodgkin-Huxley dynamics. <b>2009</b> , 79, 040901	55
1850	A Weighted Ensemble Kalman Filter for Automatic History Matching. <b>2009</b> , 27, 1062-1091	2
1849	Data Assimilation for Geophysical Fluids. <b>2009</b> , 14, 385-441	24
1848	Use of an ensemble Kalman filter for real-time inversion of leaf area index from MODIS time series data. <b>2009</b> ,	2
1847	Parameter estimation for mechanical systems via an explicit representation of uncertainty. <b>2009</b> , 26, 541-569	20
1846	Numerical Generation of Stochastic Differential Equations in Climate Models. <b>2009</b> , 14, 279-306	5
1845	A Comparison of the Hybrid and EnSRF Analysis Schemes in the Presence of Model Errors due to Unresolved Scales. <b>2009</b> , 137, 3219-3232	38

1844	Heterogeneous Correlation Modeling Based on the Wavelet Diagonal Assumption and on the Diffusion Operator. <b>2009</b> , 137, 2995-3012	15
1843	Ensemble Kalman Filter Configurations and Their Performance with the Logistic Map. <b>2009</b> , 137, 4325-4343	27
1842	Accounting for Model Errors in Ensemble Data Assimilation. <b>2009</b> , 137, 3407-3419	56
1841	A Low-Order Model Investigation of the Analysis of Gravity Waves in the Ensemble Kalman Filter. <b>2009</b> , 66, 1717-1734	3
1840	Comparison of Local Ensemble Transform Kalman Filter, 3DVAR, and 4DVAR in a Quasigeostrophic Model. <b>2009</b> , 137, 693-709	40
1839	Cloud-Resolving Hurricane Initialization and Prediction through Assimilation of Doppler Radar Observations with an Ensemble Kalman Filter. <b>2009</b> , 137, 2105-2125	250
1838	Trade-Offs between Measurement Accuracy and Resolutions in Configuring Phased-Array Radar Velocity Scans for Ensemble-Based Storm-Scale Data Assimilation. <b>2009</b> , 48, 1230-1244	13
1837	A Multiscale Ensemble Filtering System for Hydrologic Data Assimilation. Part I: Implementation and Synthetic Experiment. <b>2009</b> , 10, 794-806	71
1836	Adaptive Soil Moisture Profile Filtering for Horizontal Information Propagation in the Independent Column-Based CLM2.0. <b>2009</b> , 10, 766-779	29
1835	Additive Noise for Storm-Scale Ensemble Data Assimilation. <b>2009</b> , 26, 911-927	98
1834	Particle Filtering in Geophysical Systems. <b>2009</b> , 137, 4089-4114	396
1833	A Posteriori Diagnostics in an Ensemble of Perturbed Analyses. <b>2009</b> , 137, 3420-3436	28
1832	Univariate and Multivariate Assimilation of AIRS Humidity Retrievals with the Local Ensemble Transform Kalman Filter. <b>2009</b> , 137, 3918-3932	9
1831	An Ensemble-Based Four-Dimensional Variational Data Assimilation Scheme. Part II: Observing System Simulation Experiments with Advanced Research WRF (ARW). <b>2009</b> , 137, 1687-1704	92
1830	An iterative representer-based scheme for data inversion in reservoir modeling. <b>2009</b> , 25, 035006	6
1829	A pseudo-dynamical systems approach to a class of inverse problems in engineering. <b>2009</b> , 465, 1561-1579	17
1828	Super-ensemble techniques: Application to surface drift prediction. <b>2009</b> , 82, 149-167	45
1827	Ensemble Kalman filtering versus sequential self-calibration for inverse modelling of dynamic groundwater flow systems. <b>2009</b> , 365, 261-274	75

1826	Automatic state updating for operational streamflow forecasting via variational data assimilation. <b>2009</b> , 367, 255-275	111
1825	Evaluating the utility of the ensemble transform Kalman filter for adaptive sampling when updating a hydrodynamic model. <b>2009</b> , 375, 589-600	9
1824	Assessing parameter, precipitation, and predictive uncertainty in a distributed hydrological model using sequential data assimilation with the particle filter. <b>2009</b> , 376, 428-442	141
1823	Comparison between a reanalyzed product by 3-dimensional variational assimilation technique and observations in the Ulleung Basin of the East/Japan Sea. <b>2009</b> , 78, 249-264	25
1822	Optimization of ecosystem model parameters using spatio-temporal soil moisture information. <b>2009</b> , 220, 2121-2136	14
1821	Online update of model state and parameters of a Monte Carlo atmospheric dispersion model by using ensemble Kalman filter. <b>2009</b> , 43, 2005-2011	20
1820	Assessment of observational networks with the Representer Matrix Spectra method—Application to a 3D coastal model of the Bay of Biscay. <b>2009</b> , 59, 3-20	29
1819	Toward a global ocean data assimilation system based on ensemble optimum interpolation: altimetry data assimilation experiment. <b>2009</b> , 59, 587-602	12
1818	Data assimilation with the EnKF in a 1-D numerical model of a North Sea station. <b>2009</b> , 59, 983-996	4
1817	The ensemble particle filter (EnPF) in rainfall-runoff models. <b>2009</b> , 23, 1203-1211	25
1816	The retrospective prediction of El Niño-southern oscillation from 1881 to 2000 by a hybrid coupled model: (I) Sea surface temperature assimilation with ensemble Kalman filter. <b>2009</b> , 32, 397-413	9
1815	Optimal initial perturbations for El Niño ensemble prediction with ensemble Kalman filter. <b>2009</b> , 33, 959-973	12
1814	Comparison of deterministic ensemble Kalman filters for assimilating hydrogeological data. <b>2009</b> , 32, 280-292	52
1813	Multiscale ensemble filtering for reservoir engineering applications. <b>2009</b> , 13, 245-254	4
1812	Nonlinear filters for chaotic oscillatory systems. <b>2009</b> , 55, 113-137	33
1811	An explicit four-dimensional variational data assimilation method based on the proper orthogonal decomposition: Theoretics and evaluation. <b>2009</b> , 52, 279-286	9
1810	A variational method for correcting non-systematic errors in numerical weather prediction. <b>2009</b> , 52, 1650-1660	5
1809	Effects of sample density on the assimilation performance of an explicit four-dimensional variational data assimilation method. <b>2009</b> , 52, 1849-1856	3

1808	A new sequential data assimilation method. <b>2009</b> , 52, 1027-1038	4
1807	Coupling ensemble Kalman filter with four-dimensional variational data assimilation. <b>2009</b> , 26, 1-8	83
1806	A dressed Ensemble Kalman Filter using the Hybrid Coordinate Ocean Model in the Pacific. <b>2009</b> , 26, 1042-1052	3
1805	Dust storm ensemble forecast experiments in East Asia. <b>2009</b> , 26, 1053-1070	4
1804	A robust formulation of the ensemble Kalman filter. <b>2009</b> , 135, 507-521	9
1803	Objective filtering of ensemble-based background-error variances. <b>2009</b> , 135, 1177-1199	49
1802	Covariance localisation and balance in an Ensemble Kalman Filter. <b>2009</b> , 135, 1157-1176	100
1801	Simultaneous state estimation and attenuation correction for thunderstorms with radar data using an ensemble Kalman filter: tests with simulated data. <b>2009</b> , 135, 1409-1423	21
1800	Analysis sensitivity calculation in an ensemble Kalman filter. <b>2009</b> , 135, 1842-1851	25
1799	Constraining a numerical geodynamo model with 100 years of surface observations. <b>2009</b> , 179, 1458-1468	30
1798	. <b>2009</b> , 61, 72-83	266
1797	Data assimilation for nonlinear problems by ensemble Kalman filter with reparameterization. <b>2009</b> , 66, 1-14	54
1796	A generalized polynomial chaos based ensemble Kalman filter with high accuracy. <b>2009</b> , 228, 5454-5469	88
1795	Predictive flow-field estimation. <b>2009</b> , 238, 290-308	19
1794	Ensemble Kalman filter with the unscented transform. <b>2009</b> , 238, 549-562	44
1793	On-line economic optimization of energy systems using weather forecast information. <b>2009</b> , 19, 1725-1736	62
1792	Using Markov Chain Monte Carlo to quantify parameter uncertainty and its effect on predictions of a groundwater flow model. <b>2009</b> , 24, 749-763	61
1791	A comparison of seven methods for the inverse modelling of groundwater flow. Application to the characterisation of well catchments. <b>2009</b> , 32, 851-872	138

1790	Advanced Reservoir Management Workflow Using an EnKF Based Assisted History Matching Method. <b>2009</b> ,	35
1789	The extended Kalman filter for forecast of algal bloom dynamics. <b>2009</b> , 43, 4214-24	36
1788	Efficient data assimilation method based on chaos theory and Kalman filter with an application in Singapore Regional Model. <b>2009</b> , 3, 85-95	4
1787	Assimilating surface data into a mesoscale model ensemble: Cold pool analyses from spring 2007. <b>2009</b> , 93, 207-220	25
1786	Precipitation: Measurement, remote sensing, climatology and modeling. <b>2009</b> , 94, 512-533	255
1785	The REFLEX project: Comparing different algorithms and implementations for the inversion of a terrestrial ecosystem model against eddy covariance data. <b>2009</b> , 149, 1597-1615	124
1784	Model-based control and optimization of large scale physical systems - Challenges in reservoir engineering. <b>2009</b> ,	4
1783	Estimating Channelized-Reservoir Permeabilities With the Ensemble Kalman Filter: The Importance of Ensemble Design. <b>2009</b> , 14, 374-388	60
1782	Application and comparison of Kalman filters for coastal ocean problems: An experiment with FVCOM. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,	27
1781	Assimilation of satellite images into a sediment transport model of Lake Michigan. <b>2009</b> , 45,	29
1780	Forecasting change of the magnetic field using core surface flows and ensemble Kalman filtering. <b>2009</b> , 36,	20
1779	Performance of a local ensemble transform Kalman filter for the analysis of atmospheric circulation and distribution of long-lived tracers under idealized conditions. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,	7
1778	A hybrid space approach for ensemble-based 4-D variational data assimilation. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,	3
1777	Closed Loop Reservoir Management. <b>2009</b> ,	136
1776	A Multicase Comparative Assessment of the Ensemble Kalman Filter for Assimilation of Radar Observations. Part I: Storm-Scale Analyses. <b>2009</b> , 137, 1805-1824	182
1775	The ensemble Kalman filter for combined state and parameter estimation. <b>2009</b> , 29, 83-104	306
1774	Model Error Representation in an Operational Ensemble Kalman Filter. <b>2009</b> , 137, 2126-2143	152
1773	Sigma-Point Kalman Filter Data Assimilation Methods for Strongly Nonlinear Systems. <b>2009</b> , 66, 261-285	39



1772 Data Assimilation Methods. **2009**, 303-317

1771 Ensemble Kalman filter. **2009**, 29, 34-46 21

1770 Conditioning Stochastic Rainfall Replicates on Remote Sensing Data. **2009**, 47, 2436-2449 23

1769 Tomographic imaging of dynamic objects with the ensemble Kalman filter. **2009**, 18, 1573-87 21

1768 Ensemble Kalman filters for large geophysical applications. **2009**, 29, 66-82 27

1767 A four-dimensional scheme based on singular value decomposition (4DSVD) for chaotic-attractor-theory-oriented data assimilation. *Journal of Geophysical Research*, **2009**, 114, 6

1766 A dual-pass variational data assimilation framework for estimating soil moisture profiles from AMSR-E microwave brightness temperature. *Journal of Geophysical Research*, **2009**, 114, 58

1765 Seeing the forest through the trees: Recovering large-scale carbon flux biases in the midst of small-scale variability. *Journal of Geophysical Research*, **2009**, 114, 22

1764 Ensemble Kalman filter data assimilation for a process-based catchment scale model of surface and subsurface flow. **2009**, 45, 73

1763 Characterization of reservoir simulation models using a polynomial chaos-based ensemble Kalman filter. **2009**, 45, 46

1762 Best unbiased ensemble linearization and the quasi-linear Kalman ensemble generator. **2009**, 45, 76

1761 State and parameter estimation of hydrologic models using the constrained ensemble Kalman filter. **2009**, 45, 61

1760 Sequential updating of multimodal hydrogeologic parameter fields using localization and clustering techniques. **2009**, 45, 59

1759 Ensemble-based assimilation of discharge into rainfall-runoff models: A comparison of approaches to mapping observational information to state space. **2009**, 45, 56

1758 Data Assimilation Using the Constrained Ensemble Kalman Filter. **2009**, 4

1757 A Hybrid Ensemble Kalman Filter With Coarse Scale Constraint for Nonlinear Dynamics. **2009**, 5

1756 Closed Loop Reservoir Management Using the Ensemble Kalman Filter and Sequential Quadratic Programming. **2009**, 27

1755 Production Optimization in Closed-Loop Reservoir Management. **2009**, 14, 506-523 154

1754	Natural and Conventional Tracers for Improving Reservoir Models Using the EnKF Approach.. <b>2009</b> ,	2
1753	Data Assimilation of Coupled Fluid Flow and Geomechanics via Ensemble Kalman Filter. <b>2009</b> ,	0
1752	Estimation of Depths of Fluid Contacts by History Matching Using Iterative Ensemble Kalman Smoothers. <b>2009</b> ,	11
1751	Comments on Sigma-Point Kalman Filter Data Assimilation Methods for Strongly Nonlinear Systems[] <b>2009</b> , 66, 3498-3500	18
1750	Integration of Well Test Pressure Data Into Heterogeneous Geological Reservoir Models. <b>2009</b> ,	5
1749	Data Assimilation Coupled to Evolutionary AlgorithmsA Case Example in History Matching. <b>2009</b> ,	4
1748	Estimating surface CO <sub>2</sub> fluxes from space-borne CO <sub>2</sub> dry air mole fraction observations using an ensemble Kalman Filter. <b>2009</b> , 9, 2619-2633	115
1747	Implementation and testing of a simple data assimilation algorithm in the regional air pollution forecast model, DEOM. <b>2009</b> , 9, 5475-5488	8
1746	Efficient Ensemble-Based Closed-Loop Production Optimization. <b>2009</b> , 14, 634-645	205
1745	Using Model Error With the Ensemble Kalman Filter for More Accurate Model Updates and Predictions. <b>2009</b> ,	1
1744	Automatic History Matching of Production and Facies Data With Nonstationary Proportions Using EnKF. <b>2009</b> ,	6
1743	Soft sensing for two-phase flow using an ensemble Kalman filter. <b>2009</b> , 42, 584-589	1
1742	Reservoir Characterization With the Discrete Cosine Transform. <b>2009</b> , 14, 182-201	96
1741	Structural Uncertainty Modelling and Updating by Production Data Integration. <b>2009</b> ,	14
1740	Estimation of Depths of Fluid Contacts and Relative Permeability Curves by History Matching Using Iterative Ensemble-Kalman Smoothers. <b>2010</b> , 15, 509-525	62
1739	Controlling Noise in Ensemble Data Assimilation Schemes. <b>2010</b> , 138, 1502-1512	6
1738	Ensemble Kalman Filter Data Assimilation in a 1D Numerical Model Used for Fog Forecasting. <b>2010</b> , 138, 1792-1810	9
1737	The Effect of Including Tracer Data in the Ensemble-Kalman-Filter Approach. <b>2010</b> , 15, 454-470	8

1736	Data Assimilation of Coupled Fluid Flow and Geomechanics Using the Ensemble Kalman Filter. <b>2010</b> , 15, 382-394	18
1735	Natural and Conventional Tracers for Improving Reservoir Models Using the EnKF Approach. <b>2010</b> , 15, 1047-1061	8
1734	The Choice of a Best-Assisted History Matching Algorithm. <b>2010</b> ,	1
1733	Structural Surface Uncertainty Modeling and Updating Using the Ensemble Kalman Filter. <b>2010</b> , 15, 1062-1076	16
1732	Ensemble Based Characterization and History Matching of Naturally Fractured Tight/Shale Gas Reservoirs. <b>2010</b> ,	10
1731	Application of Particle Swarms for History Matching in the Brugge Reservoir. <b>2010</b> ,	31
1730	Application of statistical dynamical turbulence closures to data assimilation. <b>2010</b> , T142, 014042	3
1729	The Impact of Assimilating Surface Pressure Observations on Severe Weather Events in a WRF Mesoscale Ensemble System. <b>2010</b> , 138, 1673-1694	27
1728	Numerical Methods. <b>2010</b> , 50, 877-892	2
1727	Forecasting: it is not about statistics, it is about dynamics. <b>2010</b> , 368, 263-71	6
1726	The Ensemble Kalman Filter and Related Filters. <b>2010</b> , 217-246	2
1725	An Estimation Method of Thermal Contact Resistances in Satellite Thermal Model by Using the Ensemble Kalman Filter. <b>2010</b> , 9, 1-8	2
1724	Applying an ensemble Kalman filter to the assimilation of AERONET observations in a global aerosol transport model. <b>2010</b> , 10, 2561-2576	86
1723	Sensitivity tests for an ensemble Kalman filter for aerosol assimilation. <b>2010</b> , 10, 6583-6600	38
1722	Data assimilation of CALIPSO aerosol observations. <b>2010</b> , 10, 39-49	153
1721	An ensemble adjustment Kalman filter study for Argo data. <b>2010</b> , 28, 626-635	9
1720	An economical approach to four-dimensional variational data assimilation. <b>2010</b> , 27, 715-727	65
1719	The structure of background-error covariance in a four-dimensional variational data assimilation system: Single-point experiment. <b>2010</b> , 27, 1303-1310	5

1718	Non-linear wave data assimilation with an ANN-type wind-wave model and Ensemble Kalman Filter (EnKF). <b>2010</b> , 34, 1984-1999	12
1717	New approach for optimal perturbation method in ensemble climate prediction with empirical singular vector. <b>2010</b> , 35, 331-340	22
1716	Using data assimilation method to calibrate a heterogeneous conductivity field conditioning on transient flow test data. <b>2010</b> , 24, 1211-1223	20
1715	Assimilation of sea surface temperature in the Northwest Pacific Ocean and its marginal seas using the ensemble Kalman filter. <b>2010</b> , 45, 225-242	13
1714	Uncertainty analysis using the WRF maximum likelihood ensemble filter system and comparison with dropwindsonde observations in Typhoon Sinlaku (2008). <b>2010</b> , 46, 317-325	3
1713	Application and improvement of an adaptive ensemble Kalman filter for soil moisture data assimilation. <b>2010</b> , 53, 1700-1708	4
1712	A general science-based framework for dynamical spatio-temporal models. <b>2010</b> , 19, 417-451	108
1711	Assimilation of ASAR data with a hydrologic and semi-empirical backscattering coupled model to estimate soil moisture. <b>2010</b> , 20, 218-225	2
1710	Ensemble filter methods with perturbed observations applied to nonlinear problems. <b>2010</b> , 14, 249-261	5
1709	Closed-loop reservoir management on the Brugge test case. <b>2010</b> , 14, 691-703	95
1708	A stochastic collocation based Kalman filter for data assimilation. <b>2010</b> , 14, 721-744	34
1707	Improving the Ensemble Estimate of the Kalman Gain by Bootstrap Sampling. <b>2010</b> , 42, 327-345	43
1706	Dynamic Three-Dimensional Tomography of the Solar Corona. <b>2010</b> , 262, 495-509	37
1705	An Introduction to Data Assimilation and Predictability in Geomagnetism. <b>2010</b> , 155, 247-291	105
1704	A Comparison of Variational and Markov Chain Monte Carlo Methods for Inference in Partially Observed Stochastic Dynamic Systems. <b>2010</b> , 61, 51-59	5
1703	Evaluating the Utility of Remotely Sensed Soil Moisture Retrievals for Operational Agricultural Drought Monitoring. <b>2010</b> , 3, 57-66	248
1702	A new variational radial basis function approximation for inference in multivariate diffusions. <b>2010</b> , 73, 1186-1198	4
1701	Efficient online recurrent connectionist learning with the ensemble Kalman filter. <b>2010</b> , 73, 1024-1030	6

1700	Self-regularized pseudo time-marching schemes for structural system identification with static measurements. <b>2010</b> , 82, 896-916	5
1699	The variational Kalman filter and an efficient implementation using limited memory BFGS. <b>2010</b> , 64, 314-335	19
1698	History matching of facies distribution with the EnKF and level set parameterization. <b>2010</b> , 229, 8011-8030	74
1697	A comparison of simultaneous state and parameter estimation schemes for a continuous fermentor reactor. <b>2010</b> , 20, 934-943	31
1696	Tracking noisy limit cycle oscillation with nonlinear filters. <b>2010</b> , 329, 150-170	12
1695	Scaled unscented transform Gaussian sum filter: Theory and application. <b>2010</b> , 239, 684-701	18
1694	Towards the estimation root-zone soil moisture via the simultaneous assimilation of thermal and microwave soil moisture retrievals. <b>2010</b> , 33, 201-214	62
1693	Effect of simultaneous state-parameter estimation and forcing uncertainties on root-zone soil moisture for dynamic vegetation using EnKF. <b>2010</b> , 33, 468-484	26
1692	A sparse Bayesian framework for conditioning uncertain geologic models to nonlinear flow measurements. <b>2010</b> , 33, 1024-1042	20
1691	A problem-solving environment for data assimilation in air quality modelling. <b>2010</b> , 25, 277-288	21
1690	Ensemble data assimilation with the CNMCA regional forecasting system. <b>2010</b> , 136, 132-145	26
1689	Flow dependence of background errors and their vertical correlations for radiance-data assimilation. <b>2010</b> , 136, 475-486	1
1688	Four-dimensional variational assimilation in the unstable subspace and the optimal subspace dimension. <b>2010</b> , 136, 487-496	49
1687	State estimation of convective storms with a two-moment microphysics scheme and an ensemble Kalman filter: Experiments with simulated radar data. <b>2010</b> , 136, n/a-n/a	10
1686	Nonlinear data assimilation in geosciences: an extremely efficient particle filter. <b>2010</b> , 136, 1991-1999	225
1685	Asynchronous data assimilation with the EnKF. <b>2010</b> , 62, 24-29	95
1684	Towards the sequential assimilation of SAR-derived water stages into hydraulic models using the Particle Filter: proof of concept. <b>2010</b> , 14, 1773-1785	116
1683	Using the Ensemble Kalman Filter for History Matching and Uncertainty Quantification of Complex Reservoir Models. <b>2010</b> , 247-271	5

1682	Automatic generation of large ensembles for air quality forecasting using the Polyphemos system. <b>2010</b> , 3, 69-85	9
1681	Characterization of mixing errors in a coupled physical biogeochemical model of the North Atlantic: implications for nonlinear estimation using Gaussian anamorphosis. <b>2010</b> , 6, 247-262	46
1680	Coupled hydrogeophysical parameter estimation using a sequential Bayesian approach. <b>2010</b> , 14, 545-556	39
1679	Streamflow data assimilation for soil moisture analysis. <b>2010</b> , 3, 1-12	10
1678	Performance and reliability of multimodel hydrological ensemble simulations based on seventeen lumped models and a thousand catchments. <b>2010</b> , 14, 2303-2317	57
1677	Integration of Well-Test Pressure Data Into Heterogeneous Geological Reservoir Models. <b>2010</b> , 13, 496-508	6
1676	Flood Forecasting in Regulated Basins Using the Ensemble Extended Kalman Filter with the Storage Function Method. <b>2010</b> , 15, 1030-1044	19
1675	Calibrating Multimodel Forecast Ensembles with Exchangeable and Missing Members Using Bayesian Model Averaging. <b>2010</b> , 138, 190-202	106
1674	Forecasting secular variation using core flows. <b>2010</b> , 62, 821-828	13
1673	Memory-efficient fully coupled filtering approach for observational model building. <b>2010</b> , 21, 680-6	2
1672	Is it better to assimilate the Doppler radar radial velocity directly than retrieved winds with Ensemble Kalman Filter?. <b>2010</b> ,	
1671	Off-line Data Assimilation to provide the best estimate of tropospheric ozone concentrations by means of EnKF. <b>2010</b> ,	2
1670	Online Prediction Under Model Uncertainty via Dynamic Model Averaging: Application to a Cold Rolling Mill. <b>2010</b> , 52, 52-66	225
1669	Reservoir Characterization from Insufficient Static Data Using Gradual Deformation Method with Ensemble Kalman Filter. <b>2010</b> , 32, 942-951	12
1668	Reservoir Characterization Using an EnKF and a Non-parametric Approach for Highly Non-Gaussian Permeability Fields. <b>2010</b> , 32, 1569-1578	17
1667	Revising the Ensemble-Based Kalman Filter Covariance for the Retrieval of Deep-Layer Soil Moisture. <b>2010</b> , 11, 219-227	8
1666	Analysis and Forecasting of Sea Ice Conditions with Three-Dimensional Variational Data Assimilation and a Coupled IceOcean Model. <b>2010</b> , 27, 353-369	38
1665	Simultaneous Estimation of Microphysical Parameters and the Atmospheric State Using Simulated Polarimetric Radar Data and an Ensemble Kalman Filter in the Presence of an Observation Operator Error. <b>2010</b> , 138, 539-562	33

1664	A Multicase Comparative Assessment of the Ensemble Kalman Filter for Assimilation of Radar Observations. Part II: Short-Range Ensemble Forecasts. <b>2010</b> , 138, 1273-1292	79
1663	Filtering Turbulent Sparsely Observed Geophysical Flows. <b>2010</b> , 138, 1050-1083	31
1662	An Adaptive Approach to Mitigate Background Covariance Limitations in the Ensemble Kalman Filter. <b>2010</b> , 138, 2825-2845	18
1661	Filtering of Background Error Variances and Correlations by Local Spatial Averaging: A Review. <b>2010</b> , 138, 3693-3720	57
1660	Ensemble Kalman Filter and 4D-Var Intercomparison with the Japanese Operational Global Analysis and Prediction System. <b>2010</b> , 138, 2846-2866	94
1659	Assimilation of Tropical Cyclone Track and Structure Based on the Ensemble Kalman Filter (EnKF). <b>2010</b> , 67, 3806-3822	52
1658	Reducing Forecast Errors Due to Model Imperfections Using Ensemble Kalman Filtering. <b>2010</b> , 138, 3316-3332	23
1657	Accounting for Model Error in Variational Data Assimilation: A Deterministic Formulation. <b>2010</b> , 138, 3369-3386	35
1656	A Non-Gaussian Ensemble Filter Update for Data Assimilation. <b>2010</b> , 138, 4186-4198	68
1655	Sensitivity of Global Ensemble Forecasts to the Initial Ensemble Mean and Perturbations: Comparison of EnKF, Singular Vector, and 4D-Var Approaches. <b>2010</b> , 138, 3886-3904	4
1654	Assimilating seizure dynamics. <b>2010</b> , 6, e1000776	76
1653	Vertical Covariance Localization for Satellite Radiances in Ensemble Kalman Filters. <b>2010</b> , 138, 282-290	76
1652	Assimilating Remotely Sensed Surface Soil Moisture into SWAT Using Ensemble Kalman Filter. <b>2010</b> , ,	
1651	On the Propagation of Information and the Use of Localization in Ensemble Kalman Filtering. <b>2010</b> , 67, 3823-3834	10
1650	Comparison of Ensemble Kalman Filters under Non-Gaussianity. <b>2010</b> , 138, 1293-1306	42
1649	Evaluation of Data Reduction Algorithms for Real-Time Analysis. <b>2010</b> , 25, 837-851	7
1648	A Polynomial Chaos-Based Kalman Filter Approach for Parameter Estimation of Mechanical Systems. <b>2010</b> , 132,	53
1647	Advanced Data Assimilation For Cloud-Resolving Hurricane Initialization And Prediction. <b>2010</b> ,	

1646	An Ensemble Kalman Filter and Smoother for Satellite Data Assimilation. <b>2010</b> , 105, 978-990	37
1645	Application of Data Assimilation with the Root Zone Water Quality Model for Soil Moisture Profile Estimation. <b>2010</b> ,	
1644	Evaluating the Impact of Assimilating Soil Moisture Variability Data on Latent Heat Flux Estimation in a Land Surface Model. <b>2010</b> , 35, 157-172	14
1643	A Particle Filter for Inverse Lagrangian Prediction Problems. <b>2010</b> , 27, 371-384	6
1642	Land Surface Data Assimilation. <b>2010</b> , 549-597	12
1641	Beyond Gaussian Statistical Modeling in Geophysical Data Assimilation. <b>2010</b> , 138, 2997-3023	146
1640	Multisensor snow data assimilation at the continental scale: The value of Gravity Recovery and Climate Experiment terrestrial water storage information. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,	74
1639	Ensemble variational assimilation for the representation of background error covariances in a high-latitude regional model. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,	20
1638	Clear and cloudy sky infrared brightness temperature assimilation using an ensemble Kalman filter. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,	45
1637	Reproducibility of soil moisture ensembles when representing soil parameter uncertainty using a Latin HypercubeBased approach with correlation control. <b>2010</b> , 46,	13
1636	Dynamic inversion for hydrological process monitoring with electrical resistance tomography under model uncertainties. <b>2010</b> , 46,	39
1635	Ensemble-based simultaneous state and parameter estimation for treatment of mesoscale model error: A real-data study. <b>2010</b> , 37,	50
1634	Ensemble forecast of analyses: Coupling data assimilation and sequential aggregation. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,	19
1633	Assimilation of land surface temperature into the land surface model JULES with an ensemble Kalman filter. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,	49
1632	Ensemble smoother assimilation of hydraulic head and return flow data to estimate hydraulic conductivity distribution. <b>2010</b> , 46,	40
1631	Real-time management of an urban groundwater well field threatened by pollution. <b>2010</b> , 44, 6802-7	19
1630	Algorithm 900. <b>2010</b> , 37, 1-16	2
1629	Ensemble Construction and Verification of the Probabilistic ENSO Prediction in the LDEO5 Model. <b>2010</b> , 23, 5476-5497	20



1628	Towards Prediction of Decadal Climate Variability and Change. <b>2010</b> , 1, 287-304	60
1627	Implementation of a reduced rank square-root smoother for high resolution ocean data assimilation. <b>2010</b> , 33, 87-100	36
1626	Ensemble optimal interpolation schemes for assimilating Argo profiles into a hybrid coordinate ocean model. <b>2010</b> , 33, 283-298	58
1625	Assimilation of Argo temperature and salinity profiles using a bias-aware localized EnKF system for the Pacific Ocean. <b>2010</b> , 35, 187-205	21
1624	Extended target tracking for high resolution sensor based ensemble Kalman filters. <b>2010</b> ,	
1623	Assimilating Altimetry Data into a HYCOM Model of the Pacific: Ensemble Optimal Interpolation versus Ensemble Kalman Filter. <b>2010</b> , 27, 753-765	15
1622	Hierarchical Ensemble Kalman Filter. <b>2010</b> , 15, 569-580	17
1621	Wind speed forecasting via ensemble Kalman Filter. <b>2010</b> ,	7
1620	Optimal control law for adaptive optics on extremely large telescopes. <b>2010</b> ,	
1619	Towards model-based control of Parkinson's disease. <b>2010</b> , 368, 2269-308	84
1618	Sensor fusion of delay and non-delay signal using ensemble Kalman filter with moving covariance. <b>2010</b> ,	
1617	Ensemble Kalman filtering for nonlinear systems with multiple delayed measurements. <b>2010</b> ,	
1616	Real-time data assimilation. <b>2011</b> ,	0
1615	Efficient nonlinear data assimilation for oceanic models of intermediate complexity. <b>2011</b> ,	2
1614	A Three-Dimensional Variational Analysis Using Sequential Filter. <b>2011</b> ,	1
1613	Toward online, noninvasive, nonlinear assessment of cerebral autoregulation. <b>2011</b> , 2011, 2410-3	2
1612	Data assimilation into land surface models: the implications for climate feedbacks. <b>2011</b> , 32, 617-632	13
1611	Intercomparison of an Ensemble Kalman Filter with Three- and Four-Dimensional Variational Data Assimilation Methods in a Limited-Area Model over the Month of June 2003. <b>2011</b> , 139, 566-572	52

1610	Quantifying Monte Carlo Uncertainty in the Ensemble Kalman Filter. <b>2011</b> , 16, 172-182	14
1609	Impact of observation-optimized model parameters on decadal predictions: Simulation with a simple pycnocline prediction model. <b>2011</b> , 38, n/a-n/a	27
1608	Observing system simulation experiments with ensemble Kalman filters in Nantucket Sound, Massachusetts. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,	20
1607	Variable localization in an ensemble Kalman filter: Application to the carbon cycle data assimilation. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,	92
1606	Sensitivity of ensemble-based variances to initial background perturbations. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,	3
1605	Estimating turbulent fluxes through assimilation of geostationary operational environmental satellites data using ensemble Kalman filter. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,	37
1604	Assessing the impact of satellite, aircraft, and surface observations on CO <sub>2</sub> flux estimation using an ensemble-based 4-D data assimilation system. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,	13
1603	A global reanalysis of vegetation phenology. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,	92
1602	Role of thermosphere-ionosphere coupling in a global ionospheric specification. <b>2011</b> , 46,	23
1601	Assessing the performance of the ensemble Kalman filter for subsurface flow data integration under variogram uncertainty. <b>2011</b> , 47,	58
1600	Many-objective groundwater monitoring network design using bias-aware ensemble Kalman filtering, evolutionary optimization, and visual analytics. <b>2011</b> , 47,	103
1599	State estimation and modeling error approach for 2-D shallow water equations and Lagrangian measurements. <b>2011</b> , 47,	10
1598	Operational real-time modeling with ensemble Kalman filter of variably saturated subsurface flow including stream-aquifer interaction and parameter updating. <b>2011</b> , 47,	63
1597	A generalized grid connectivity-based parameterization for subsurface flow model calibration. <b>2011</b> , 47,	49
1596	Performance of convection-permitting hurricane initialization and prediction during 2008-2010 with ensemble data assimilation of inner-core airborne Doppler radar observations. <b>2011</b> , 38,	122
1595	Direct radiative effect of aerosols estimated using ensemble-based data assimilation in a global aerosol climate model. <b>2011</b> , 38, n/a-n/a	24
1594	Demonstration of ensemble data assimilation for Mars using DART, MarsWRF, and radiance observations from MGS TES. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,	24
1593	Assessment of local hydraulic properties from electrical resistivity tomography monitoring of a three-dimensional synthetic tracer test experiment. <b>2011</b> , 47,	42

1592	Toward a reliable decomposition of predictive uncertainty in hydrological modeling: Characterizing rainfall errors using conditional simulation. <b>2011</b> , 47,	145
1591	The ensemble unscented particle filter. <b>2011</b> ,	0
1590	Integrating estimates of ecosystem services from conservation programs and practices into models for decision makers. <b>2011</b> , 21, S128-S134	25
1589	Multipoint Statistical Characterization of Geologic Facies from Dynamic Data and Uncertain Training Images. <b>2011</b> ,	4
1588	Time-varying Dynamic Systems Identification. <b>2011</b> , 195-221	
1587	Assimilation of Remote Sensing and Crop Model for LAI Estimation Based on Ensemble Kalman Filter. <b>2011</b> , 10, 1595-1602	25
1586	A Consistent Hybrid Variational-Smoothing Data Assimilation Method: Application to a Simple Shallow-Water Model of the Turbulent Midlatitude Ocean. <b>2011</b> , 139, 3333-3347	5
1585	Impacts of Sea Surface Temperature Uncertainty on the Western North Pacific Subtropical High (WNPSH) and Rainfall. <b>2011</b> , 26, 371-387	4
1584	Error Estimate for the Ensemble Kalman Filter Analysis Step. <b>2011</b> , 32, 1275-1287	1
1583	Advanced Data Assimilation for Cloud-Resolving Hurricane Initialization and Prediction. <b>2011</b> , 13, 40-49	19
1582	Ensemble Kalman filtering without the intrinsic need for inflation. <b>2011</b> , 18, 735-750	61
1581	Assimilating SAR-derived water level data into a hydraulic model: a case study. <b>2011</b> , 15, 2349-2365	110
1580	Reservoir Characterization and Uncertainty Assessment Using the Ensemble Kalman Filter. <b>2011</b> , 235-248	0
1579	Can ocean color assimilation improve biogeochemical hindcasts in shelf seas?. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,	43
1578	On the Kalman Filter error covariance collapse into the unstable subspace. <b>2011</b> , 18, 243-250	36
1577	History Matching of Reservoir Models by Ensemble Kalman Filtering. <b>2011</b> , 249-264	1
1576	Simultaneous estimation of land surface scheme states and parameters using the ensemble Kalman filter: identical twin experiments. <b>2011</b> , 15, 2437-2457	26
1575	Inferring internal properties of Earth's core dynamics and their evolution from surface observations and a numerical geodynamo model. <b>2011</b> , 18, 657-674	38

1574	Evaluating uncertainty estimates in hydrologic models: borrowing measures from the forecast verification community. <b>2011</b> , 15, 3367-3382	38
1573	Hydrological real-time modelling in the Zambezi river basin using satellite-based soil moisture and rainfall data. <b>2011</b> , 15, 999-1008	38
1572	Applying sequential Monte Carlo methods into a distributed hydrologic model: lagged particle filtering approach with regularization. <b>2011</b> , 15, 3237-3251	47
1571	Chemical Data Assimilation—An Overview. <b>2011</b> , 2, 426-463	66
1570	Improvement of ozone forecast over Beijing based on ensemble Kalman filter with simultaneous adjustment of initial conditions and emissions. <b>2011</b> , 11, 12901-12916	45
1569	Grid-Based Inversion Methods for Spatial Feature Identification and Parameter Estimation from Pressure Transient Tests. <b>2011</b> ,	3
1568	History Matching a Field Case Using the Ensemble Kalman Filter with Covariance Localization. <b>2011</b> ,	2
1567	Use of Phase Streamlines for Covariance Localization in Ensemble Kalman Filter for Three-Phase History Matching. <b>2011</b> ,	2
1566	Adaptive Regularization in the Ensemble Kalman Filter for Reservoir History Matching. <b>2011</b> ,	1
1565	Inversion of the Fluvial Channel Reservoir Permeability Field Using Ensemble Kalman Filter Based on Discrete Cosine Transform. <b>2011</b> , 54, 537-550	1
1564	Uncertainty in predictions of forest carbon dynamics: separating driver error from model error. <b>2011</b> , 21, 1506-22	15
1563	Combining the Ensemble Kalman Filter with Markov Chain Monte Carlo for Improved History Matching and Uncertainty Characterization. <b>2011</b> ,	10
1562	Data Assimilation Using the Constrained Ensemble Kalman Filter. <b>2011</b> , 16, 331-342	18
1561	Probabilistic Collocation Based Kalman Filter for Assisted History Matching. <b>2011</b> ,	1
1560	Joint History Matching of Well Data and Surface Subsidence Observations Using the Ensemble Kalman Filter: A Field Study. <b>2011</b> ,	9
1559	Interior-Point Formulation for the Constrained Ensemble Kalman Filter. <b>2011</b> ,	2
1558	A Case Study of the History Matching of a Sector of the Norne Field Using the Ensemble Kalman Filter. <b>2011</b> ,	
1557	Improving Characterization and History Matching Using Entropy Weighted Ensemble Kalman Filter for Non-Gaussian Distributions. <b>2011</b> ,	5

1556	From the Ensemble Kalman Filter to the Particle Filter: a comparative study in rainfall-runoff models*. <b>2011</b> , 44, 14201-14206	
1555	Ensemble Methods for Dynamic Data Assimilation of Chemical Observations in Atmospheric Models. <b>2011</b> , 5, 667-692	6
1554	History Matching a Field Case Using the Ensemble Kalman Filter With Covariance Localization. <b>2011</b> , 14, 423-432	33
1553	Low-Rank Unscented Kalman Filter for Freeway Traffic Estimation Problems. <b>2011</b> , 2260, 113-122	9
1552	Advanced History Matching Techniques Reviewed. <b>2011</b> ,	34
1551	State estimation in wall-bounded flow systems. Part 3. The ensemble Kalman filter. <b>2011</b> , 682, 289-303	29
1550	On Designing a Cooperative Control System for Multiple Mobile Robots to Locate the Source of Odor*. <b>2011</b> , 44, 9446-9451	2
1549	Estimation of Unsaturated Soil Hydraulic Parameters Using the Ensemble Kalman Filter. <b>2011</b> , 10, 1205-1227	46
1548	Integration of CFD and Wind Tunnel by Data Assimilation. <b>2011</b> , 6, 717-728	3
1547	Integrating models with data in ecology and palaeoecology: advances towards a model-data fusion approach. <b>2011</b> , 14, 522-36	69
1546	The role of prior model calibration on predictions with ensemble Kalman filter. <b>2011</b> , 49, 845-58	7
1545	Evaluation of CLAMEPS proposed multimodel EPS for short range forecasting. <b>2011</b> , 63, 513-530	33
1544	A POD-based ensemble four-dimensional variational assimilation method. <b>2011</b> , 63, 805-816	61
1543	The role of model dynamics in ensemble Kalman filter performance for chaotic systems. <b>2011</b> , 63, 958-977	29
1542	An evaluation study of the DRP-4-DVar approach with the Lorenz-96 model. <b>2011</b> , 63, 256-262	8
1541	Estimating spatially-variable first-order rate constants in groundwater reactive transport systems. <b>2011</b> , 122, 104-21	12
1540	Computation of the analysis error covariance in variational data assimilation problems with nonlinear dynamics. <b>2011</b> , 230, 7923-7943	27
1539	Feasibility of real-time soil state and flux characterization for wastewater reuse using an embedded sensor network data assimilation approach. <b>2011</b> , 399, 313-325	29

1538	Hydraulic parameter estimation by remotely-sensed top soil moisture observations with the particle filter. <b>2011</b> , 399, 410-421	220
1537	An Overview of Sequential Bayesian Filtering in Ocean Acoustics. <b>2011</b> , 36, 71-89	66
1536	Wavelet Reconstruction of Geologic Facies From Nonlinear Dynamic Flow Measurements. <b>2011</b> , 49, 1520-1535	56
1535	Assimilating remote sensing and in situ observations into a coastal model of northern South China Sea using ensemble Kalman filter. <b>2011</b> , 31, S24-S36	24
1534	An ensemble assessment of regional ozone model uncertainty with an explicit error representation. <b>2011</b> , 45, 784-793	20
1533	Wave height data assimilation using non-stationary kriging. <b>2011</b> , 37, 363-370	4
1532	Data Assimilation: A Fully Nonlinear Approach to Ensemble Formation Using Indistinguishable States. <b>2011</b> , 139, 2080-2097	2
1531	Ensemble Kalman filtering with shrinkage regression techniques. <b>2011</b> , 15, 271-292	14
1530	Relation between two common localisation methods for the EnKF. <b>2011</b> , 15, 225-237	138
1529	Multimodal ensemble Kalman filtering using Gaussian mixture models. <b>2011</b> , 15, 307-323	75
1528	Ensemble-based conditioning of reservoir models to seismic data. <b>2011</b> , 15, 359-378	21
1527	Evaluation and error analysis: Kalman gain regularization versus covariance regularization. <b>2011</b> , 15, 489-508	14
1526	Updating Markov chain models using the ensemble Kalman filter. <b>2011</b> , 15, 325-344	15
1525	Ensemble Kalman filtering for non-linear likelihood models using kernel-shrinkage regression techniques. <b>2011</b> , 15, 529-544	4
1524	A multi-resolution workflow to generate high-resolution models constrained to dynamic data. <b>2011</b> , 15, 545-563	16
1523	Ensemble Kalman filter for model updating IIA special issue. <b>2011</b> , 15, 223-224	3
1522	A Probability Conditioning Method (PCM) for Nonlinear Flow Data Integration into Multipoint Statistical Facies Simulation. <b>2011</b> , 43, 133-164	85
1521	Snow water equivalent prediction using Bayesian data assimilation methods. <b>2011</b> , 25, 253-270	88

1520	Groundwater parameter estimation using the ensemble Kalman filter with localization. <b>2011</b> , 19, 547-561	18
1519	Correcting surface winds by assimilating high-frequency radar surface currents in the German Bight. <b>2011</b> , 61, 599-610	27
1518	Combined model state and parameter estimation with an ensemble Kalman filter in a North Sea station 1-D numerical model. <b>2011</b> , 61, 1869-1886	1
1517	RETRACTED ARTICLE: Real-time slope water table forecasting by multi-tank model combined with dual ensemble Kalman filter. <b>2011</b> , 8, 81-89	2
1516	Time-expanded sampling for ensemble-based filters: Assimilation experiments with real radar observations. <b>2011</b> , 28, 743-757	5
1515	Application of ATOVS radiance-bias correction to typhoon track prediction with Ensemble Kalman Filter data assimilation. <b>2011</b> , 28, 178-186	3
1514	Impact of analysis-time tuning on the performance of the DRP-4DVar approach. <b>2011</b> , 28, 207-216	2
1513	A multimodel ensemble-based Kalman filter for the retrieval of soil moisture profiles. <b>2011</b> , 28, 195-206	6
1512	Particle Filter-based assimilation algorithms for improved estimation of root-zone soil moisture under dynamic vegetation conditions. <b>2011</b> , 34, 433-447	33
1511	Parameter estimation in ensemble based snow data assimilation: A synthetic study. <b>2011</b> , 34, 407-416	17
1510	An approach to handling non-Gaussianity of parameters and state variables in ensemble Kalman filtering. <b>2011</b> , 34, 844-864	181
1509	Distributed parameter and state estimation in petroleum reservoirs. <b>2011</b> , 46, 70-77	7
1508	Capturing eddy shedding in the Gulf of Mexico from Lagrangian observations. <b>2011</b> , 240, 166-179	8
1507	Sequential Monte Carlo filters for abruptly changing state estimation. <b>2011</b> , 26, 194-201	7
1506	Reservoir history matching and inversion using an iterative ensemble Kalman filter with covariance localization. <b>2011</b> , 8, 316-327	11
1505	Improving the description of the suspended particulate matter concentrations in the southern North Sea through assimilating remotely sensed data. <b>2011</b> , 46, 179-204	16
1504	Numerical study of current fields near the Changjiang Estuary and impact of Quick-EnKF assimilation. <b>2011</b> , 30, 33-44	16
1503	Time-expanded sampling approach for Ensemble Kalman Filter: Experiment assimilation of simulated soundings. <b>2011</b> , 25, 558-567	2

1502	China land soil moisture EnKF data assimilation based on satellite remote sensing data. <b>2011</b> , 54, 1430-1440	97
1501	High-resolution simulation over central Europe: assimilation experiments during COPS IOP 9c. <b>2011</b> , 137, 156-175	43
1500	The definition of $\sqrt{\text{tr}(\Sigma)}$ for Numerical Weather Prediction error statistics. <b>2011</b> , 137, 84-98	12
1499	State and parameter estimation with the extended Kalman filter: an alternative formulation of the model error dynamics. <b>2011</b> , 137, 435-451	26
1498	The Twentieth Century Reanalysis Project. <b>2011</b> , 137, 1-28	2424
1497	Use of a nonlinear pseudo-relative humidity variable in a multivariate formulation of moisture analysis. <b>2011</b> , 137, 1004-1018	12
1496	Efficient nonlinear data-assimilation in geophysical fluid dynamics. <b>2011</b> , 46, 52-58	30
1495	A method for merging flow-dependent forecast error statistics from an ensemble with static statistics for use in high resolution variational data assimilation. <b>2011</b> , 46, 387-391	5
1494	Improving hydrologic predictions of a catchment model via assimilation of surface soil moisture. <b>2011</b> , 34, 526-536	139
1493	A semi-implicit approach for fast parameter estimation by means of the extended Kalman filter. <b>2011</b> , 21, 510-518	12
1492	Numerical strategies for filtering partially observed stiff stochastic differential equations. <b>2011</b> , 230, 744-762	4
1491	Real-time retrieval of Leaf Area Index from MODIS time series data. <b>2011</b> , 115, 97-106	81
1490	Interpolating Irregularly Spaced Observations for Filtering Turbulent Complex Systems. <b>2011</b> , 33, 2620-2640	5
1489	An ensemble-based variational inversion scheme. <b>2011</b> ,	
1488	Inflation adjustment on error covariance matrix of ensemble Kalman filter. <b>2011</b> ,	
1487	An ensemble-based three-dimensional variational data assimilation scheme. <b>2011</b> ,	
1486	. <b>2011</b> , 59, 2465-2473	132
1485	Assimilating Observation Data into Hydrological Model with Ensemble Kalman Filter. <b>2011</b> , 255-260, 3632-3636	1



1484	Identification of Geologic Fault Network Geometry by Using a Grid-Based Ensemble Kalman Filter. <b>2011</b> , 15, 228-233	3
1483	Balance and Ensemble Kalman Filter Localization Techniques. <b>2011</b> , 139, 511-522	154
1482	A Space-Time Multiscale Analysis System: A Sequential Variational Analysis Approach. <b>2011</b> , 139, 1224-1240	84
1481	Multi-level Parallelization of Ensemble Kalman Filter for Reservoir History Matching. <b>2011</b> ,	5
1480	Multiscale parameterization with adaptive localization for improved assimilation of time-lapse data. <b>2011</b> ,	
1479	History Matching for Non-Gaussian Random Fields Using the Probabilistic Collocation Based Kalman Filter. <b>2011</b> ,	2
1478	Feedback Control of Polymer Flooding Process Considering Geologic Uncertainty. <b>2011</b> ,	3
1477	Use of Reduced-order Models for Improved Data Assimilation within an EnKF Context. <b>2011</b> ,	10
1476	Assimilation of ozone measurements in the air quality model AURORA by using the Ensemble Kalman Filter. <b>2011</b> ,	2
1475	Towards model-based control of Parkinson's disease: A perspective. <b>2011</b> ,	
1474	Kalman filtering and smoothing for linear wave equations with model error. <b>2011</b> , 27, 095008	4
1473	Improvement of Ensemble Kalman Filter for Improper Initial Ensembles. <b>2011</b> , 14, 79-84	8
1472	CHAOS AND WEATHER FORECASTING: THE ROLE OF THE UNSTABLE SUBSPACE IN PREDICTABILITY AND STATE ESTIMATION PROBLEMS. <b>2011</b> , 21, 3389-3415	21
1471	Evaluation of Surface Analyses and Forecasts with a Multiscale Ensemble Kalman Filter in Regions of Complex Terrain. <b>2011</b> , 139, 2008-2024	25
1470	A Moment Matching Ensemble Filter for Nonlinear Non-Gaussian Data Assimilation. <b>2011</b> , 139, 3964-3973	45
1469	Improving Predictions of Water and Heat Fluxes by Assimilating MODIS Land Surface Temperature Products into the Common Land Model. <b>2011</b> , 12, 227-244	44
1468	An Ensemble Ocean Data Assimilation System for Seasonal Prediction. <b>2011</b> , 139, 786-808	96
1467	Global Ensemble Predictions of 2009's Tropical Cyclones Initialized with an Ensemble Kalman Filter. <b>2011</b> , 139, 668-688	132

1466	Improving Land Data Assimilation Performance with a Water Budget Constraint. <b>2011</b> , 12, 1040-1055	25
1465	Assimilation of Stratospheric Temperature and Ozone with an Ensemble Kalman Filter in a ChemistryClimate Model. <b>2011</b> , 139, 3389-3404	14
1464	Assimilation of Surface-Based Boundary Layer Profiler Observations during a Cool-Season Weather Event Using an Observing System Simulation Experiment. Part I: Analysis Impact. <b>2011</b> , 139, 2309-2326	25
1463	Evolutionary Algorithm-Based Error Parameterization Methods for Data Assimilation. <b>2011</b> , 139, 2668-2685	15
1462	A Study of Impacts of Coupled Model Initial Shocks and StateParameter Optimization on Climate Predictions Using a Simple Pycnocline Prediction Model. <b>2011</b> , 24, 6210-6226	43
1461	Robust Ensemble Filtering and Its Relation to Covariance Inflation in the Ensemble Kalman Filter. <b>2011</b> , 139, 3938-3953	41
1460	Observability of Flow-Dependent Structure Functions for Use in Data Assimilation. <b>2011</b> , 139, 713-725	
1459	Limited-Area Ensemble-Based Data Assimilation. <b>2011</b> , 139, 2025-2045	41
1458	Ensemble Kalman Filter Assimilation of Radar Observations of the 8 May 2003 Oklahoma City Supercell: Influences of Reflectivity Observations on Storm-Scale Analyses. <b>2011</b> , 139, 272-294	145
1457	Dynamics and Structure of Forecast Error Covariance in the Core of a Developing Hurricane. <b>2011</b> , 68, 1586-1606	19
1456	The Gaussian Approach to Adaptive Covariance Inflation and Its Implementation with the Local Ensemble Transform Kalman Filter. <b>2011</b> , 139, 1519-1535	187
1455	Marginalized Particle Filtering Framework for Tuning of Ensemble Filters. <b>2011</b> , 139, 3589-3599	9
1454	The Analysis and Prediction of the 8 May 2007 Oklahoma Tornadoic Mesoscale Convective System by Assimilating WSR-88D and CASA Radar Data Using 3DVAR. <b>2011</b> , 139, 224-246	71
1453	Analysis of a Tornadoic Mesoscale Convective Vortex Based on Ensemble Kalman Filter Assimilation of CASA X-Band and WSR-88D Radar Data. <b>2011</b> , 139, 3446-3468	64
1452	What Constrains Spread Growth in Forecasts Initialized from Ensemble Kalman Filters?. <b>2011</b> , 139, 117-131	30
1451	Probabilistic Estimates of Transient Climate Sensitivity Subject to Uncertainty in Forcing and Natural Variability. <b>2011</b> , 24, 5521-5537	29
1450	Efficient Local Error Parameterizations for Square Root or Ensemble Kalman Filters: Application to a Basin-Scale Ocean Turbulent Flow. <b>2011</b> , 139, 474-493	11
1449	Can Fully Accounting for Clouds in Data Assimilation Improve Short-Term Forecasts by Global Models?. <b>2011</b> , 139, 946-957	17

1448	Data Assimilation in SlowFast Systems Using Homogenized Climate Models. <b>2012</b> , 69, 1359-1377	31
1447	A simulation study of the ensemble-based data assimilation of satellite-borne lidar aerosol observations. <b>2012</b> ,	3
1446	Ensemble Statistics for Diagnosing Dynamics: Tropical Cyclone Track Forecast Sensitivities Revealed by Ensemble Regression. <b>2012</b> , 140, 2647-2669	11
1445	Reducing Water Imbalance in Land Data Assimilation: Ensemble Filtering without Perturbed Observations. <b>2012</b> , 13, 413-420	7
1444	Linear versus Nonlinear Filtering with Scale-Selective Corrections for Balanced Dynamics in a Simple Atmospheric Model. <b>2012</b> , 69, 3405-3419	9
1443	DART/CAM: An Ensemble Data Assimilation System for CESM Atmospheric Models. <b>2012</b> , 25, 6304-6317	55
1442	Impact of Assimilating AMSU-A Radiances on Forecasts of 2008 Atlantic Tropical Cyclones Initialized with a Limited-Area Ensemble Kalman Filter. <b>2012</b> , 140, 4017-4034	76
1441	Impact of Assimilating Microwave Radiances with a Limited-Area Ensemble Data Assimilation System on Forecasts of Typhoon Morakot. <b>2012</b> , 27, 424-437	45
1440	Characterizing Curvilinear Features Using the Localized Normal-Score Ensemble Kalman Filter. <b>2012</b> , 2012, 1-18	5
1439	Concentric Eyewall Formation in Typhoon Sinlaku (2008). Part I: Assimilation of T-PARC Data Based on the Ensemble Kalman Filter (EnKF). <b>2012</b> , 140, 506-527	57
1438	Assessing the Impact of the Covariance Localization Radius when Assimilating Infrared Brightness Temperature Observations Using an Ensemble Kalman Filter. <b>2012</b> , 140, 543-561	21
1437	Data Assimilation with Soil Water Content Sensors and Pedotransfer Functions in Soil Water Flow Modeling. <b>2012</b> , 76, 829-844	20
1436	Determining Key Model Parameters of Rapidly Intensifying Hurricane Guillermo (1997) Using the Ensemble Kalman Filter. <b>2012</b> , 69, 3147-3171	12
1435	The Impact of Rainfall Error Characterization on the Estimation of Soil Moisture Fields in a Land Data Assimilation System. <b>2012</b> , 13, 1107-1118	8
1434	Localization and Sampling Error Correction in Ensemble Kalman Filter Data Assimilation. <b>2012</b> , 140, 2359-2371	130
1433	Ensemble Kalman Filter Analyses of the 29B0 May 2004 Oklahoma Tornadoic Thunderstorm Using One- and Two-Moment Bulk Microphysics Schemes, with Verification against Polarimetric Radar Data. <b>2012</b> , 140, 1457-1475	65
1432	Application of a WRF Mesoscale Data Assimilation System to Springtime Severe Weather Events 200709. <b>2012</b> , 140, 1539-1557	22
1431	Ensemble Probabilistic Forecasts of a Tornadoic Mesoscale Convective System from Ensemble Kalman Filter Analyses Using WSR-88D and CASA Radar Data. <b>2012</b> , 140, 2126-2146	45

1430	Accounting for Skewness in Ensemble Data Assimilation. <b>2012</b> , 140, 2346-2358	24
1429	The HWRF Hurricane Ensemble Data Assimilation System (HEDAS) for High-Resolution Data: The Impact of Airborne Doppler Radar Observations in an OSSE. <b>2012</b> , 140, 1843-1862	50
1428	Localization of non-linearly modeled autonomous mobile robots using out-of-sequence measurements. <b>2012</b> , 12, 2487-518	5
1427	Electron radiation belt data assimilation with an ensemble Kalman filter relying on the Salammbô code. <b>2012</b> , 30, 929-943	26
1426	Including Uncertainties of Sea Surface Temperature in an Ensemble Kalman Filter: A Case Study of Typhoon Sinlaku (2008). <b>2012</b> , 27, 1586-1597	17
1425	Multivariate and multiscale data assimilation in terrestrial systems: a review. <b>2012</b> , 12, 16291-333	75
1424	Comparison between Dual-Doppler and EnKF Storm-Scale Wind Analyses: Observing System Simulation Experiments with a Supercell Thunderstorm. <b>2012</b> , 140, 3972-3991	9
1423	Data Assimilation within the Advanced Circulation (ADCIRC) Modeling Framework for Hurricane Storm Surge Forecasting. <b>2012</b> , 140, 2215-2231	23
1422	Generating and Calibrating Probabilistic Quantitative Precipitation Forecasts from the High-Resolution NWP Model COSMO-DE. <b>2012</b> , 27, 988-1002	45
1421	Comparison of Ensemble Kalman FilterBased Forecasts to Traditional Ensemble and Deterministic Forecasts for a Case Study of Banded Snow. <b>2012</b> , 27, 85-105	4
1420	Smoothing Problems in a Bayesian Framework and Their Linear Gaussian Solutions. <b>2012</b> , 140, 683-695	32
1419	Handling Nonlinearity in an Ensemble Kalman Filter: Experiments with the Three-Variable Lorenz Model. <b>2012</b> , 140, 2628-2646	42
1418	Effect of targeted dropsonde observations and best track data on the track forecasts of Typhoon Sinlaku (2008) using an ensemble Kalman filter. <b>2012</b> , 64, 14984	18
1417	Better constraints on the sea-ice state using global sea-ice data assimilation. <b>2012</b> , 5, 1501-1515	19
1416	Rationale for Monitoring Discharge on the Ground. <b>2012</b> , 13, 1977-1986	59
1415	Two-Dimensional Retrieval of Typhoon Tracks from an Ensemble of Multimodel Outputs. <b>2012</b> , 27, 451-461	6
1414	Reduced-order Kalman-filtered hybrid simulation combining particle tracking velocimetry and direct numerical simulation. <b>2012</b> , 709, 249-288	36
1413	Estimation of noise parameters in dynamical system identification with Kalman filters. <b>2012</b> , 86, 036214	12

1412	Parameter estimation through ignorance. <b>2012</b> , 86, 016213	11
1411	Sequential Bayesian geoacoustic inversion for mobile and compact source-receiver configuration. <b>2012</b> , 131, 2668-81	10
1410	Nonlinear Gaussian filtering via radial basis function approximation. <b>2012</b> ,	0
1409	Impact of MW dependent constraint violation penalties on market results at southwest power pool. <b>2012</b> ,	2
1408	Assimilating process context information of cellular automata into change detection for monitoring land use changes. <b>2012</b> , 26, 1667-1687	16
1407	A Time-Averaged Covariance Method in the EnKF for Argo Data Assimilation. <b>2012</b> , 50, 129-145	6
1406	Assimilating Airborne Doppler Radar Observations with an Ensemble Kalman Filter for Convection-Permitting Hurricane Initialization and Prediction: Katrina (2005). <b>2012</b> , 140, 841-859	103
1405	Better constraints on the sea-ice state using global sea-ice data assimilation. <b>2012</b> ,	1
1404	Dual State-Mechanism Adjustment Adaptive Filtering to Improve Accuracy of Subsurface Transport Models. <b>2012</b> , 138, 17-26	1
1403	Data assimilation by coupling uncertain support vector machine with ensemble Kalman filter. <b>2012</b> ,	
1402	Recent developments in model-based optimization and control of subsurface flow in oil reservoirs. <b>2012</b> , 45, 189-200	7
1401	Assisted History Matching Using Three Derivative-Free Optimization Algorithms. <b>2012</b> ,	20
1400	Assimilation of IASI partial tropospheric columns with an Ensemble Kalman Filter over Europe. <b>2012</b> , 12, 2513-2532	32
1399	Fundamental Study for Identification of Degraded Area in Geotechnical Structures using Data Assimilation. <b>2012</b> , 68, 1_89-1_101	0
1398	Global NO <sub>x</sub> emission estimates derived from an assimilation of OMI tropospheric NO <sub>2</sub> columns. <b>2012</b> , 12, 2263-2288	118
1397	Improved Uncertainty Quantification in the Ensemble Kalman Filter Using Statistical Model-Selection Techniques. <b>2012</b> , 17, 152-162	5
1396	Advanced State Estimation Techniques for Packed Bed Reactors. <b>2012</b> , 45, 519-524	3
1395	Advancing data assimilation in operational hydrologic forecasting: progresses, challenges, and emerging opportunities. <b>2012</b> , 16, 3863-3887	300

1394	Automatic Estimation of Fracture Properties in Multi-Stage Fractured Shale Gas Horizontal Wells for Reservoir Modeling. <b>2012</b> ,	4
1393	Flow-dependent empirical singular vector with an ensemble Kalman filter data assimilation for El Nino prediction. <b>2012</b> , 39, 1727-1738	3
1392	On the initialization of tropical cyclones with a three dimensional variational analysis. <b>2012</b> , 63, 1375-1391	11
1391	The ensemble Kalman filter is an ABC algorithm. <b>2012</b> , 22, 1273-1276	9
1390	Formulation of the Evolutionary-Based Data Assimilation, and its Implementation in Hydrological Forecasting. <b>2012</b> , 26, 3853-3870	25
1389	Estimating net radiation flux in the Tibetan Plateau by assimilating MODIS LST products with an ensemble Kalman filter and particle filter. <b>2012</b> , 19, 1-11	11
1388	Doppler radar data assimilation with a local SVD-En3DVar method. <b>2012</b> , 26, 717-734	4
1387	Assimilating multi-site measurements for semi-distributed hydrological model updating. <b>2012</b> , 282, 122-129	9
1386	Tracking of ballistic target on re-entry using ensemble Kalman filter. <b>2012</b> ,	4
1385	The Parallel Algorithm of the Non-differentiable Maximum Likelihood Ensemble Filter on Cloud Environments. <b>2012</b> ,	
1384	. <b>2012</b> , 50, 2542-2555	200
1383	Local sequential ensemble Kalman filter for simultaneously tracking states and parameters. <b>2012</b> ,	2
1382	Assimilation of FORMOSAT-3/COSMIC electron density profiles into a coupled thermosphere/ionosphere model using ensemble Kalman filtering. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a	58
1381	Estimation with non-white Gaussian observation noise using a generalised ENSEMBLE KALMAN filter. <b>2012</b> ,	3
1380	Bayesian filtering for stochastic dynamical systems via Markov chain Monte Carlo. <b>2012</b> ,	
1379	Particle Kalman Filtering: A Nonlinear Bayesian Framework for Ensemble Kalman Filters. <b>2012</b> , 140, 528-542	76
1378	E4DVar: Coupling an Ensemble Kalman Filter with Four-Dimensional Variational Data Assimilation in a Limited-Area Weather Prediction Model. <b>2012</b> , 140, 587-600	78
1377	Assimilation of glider and mooring data into a coastal ocean model. <b>2012</b> , 47, 1-13	33

1376	On sequential data assimilation for scalar macroscopic traffic flow models. <b>2012</b> , 241, 1421-1440	43
1375	A parametric study of the source rate for outer radiation belt electrons using a Kalman filter. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a	11
1374	Multisource Estimation of Long-Term Terrestrial Water Budget for Major Global River Basins. <b>2012</b> , 25, 3191-3206	155
1373	Real-time air quality forecasting, part II: State of the science, current research needs, and future prospects. <b>2012</b> , 60, 656-676	142
1372	Improving ozone forecasts over Europe by synergistic use of the LOTOS-EUROS chemical transport model and in-situ measurements. <b>2012</b> , 60, 217-226	46
1371	Sequential data assimilation with multiple models. <b>2012</b> , 231, 6401-6418	7
1370	On digital soil assessment with models and the Pedometrics agenda. <b>2012</b> , 171-172, 3-15	32
1369	Verification of RUC 0-h Forecasts and SPC Mesoscale Analyses Using VORTEX2 Soundings. <b>2012</b> , 27, 667-683	28
1368	Examination of Analysis and Forecast Errors of High-Resolution Assimilation, Bias Removal, and Digital Filter Initialization with an Ensemble Kalman Filter. <b>2012</b> , 140, 3992-4004	14
1367	Model parameter uncertainty updates to achieve optimal management of a reservoir. <b>2012</b> , 20, 1042-1057	8
1366	Schemes for automatic history matching of reservoir modeling: A case of Nelson oilfield in UK. <b>2012</b> , 39, 349-361	11
1365	Simultaneous three-dimensional variational assimilation of surface fine particulate matter and MODIS aerosol optical depth. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a	84
1364	Parameter estimation by ensemble Kalman filters with transformed data: Approach and application to hydraulic tomography. <b>2012</b> , 48,	111
1363	Three-dimensional Bayesian geostatistical aquifer characterization at the Hanford 300 Area using tracer test data. <b>2012</b> , 48,	34
1362	Inverse groundwater modeling with emphasis on model parameterization. <b>2012</b> , 48,	2
1361	Uncertainty in flood forecasting: A distributed modeling approach in a sparse data catchment. <b>2012</b> , 48,	23
1360	Multiscale parameterization with adaptive regularization for improved assimilation of nonlocal observation. <b>2012</b> , 48,	8
1359	Hydrologic data assimilation with a hillslope-scale-resolving model and L band radar observations: Synthetic experiments with the ensemble Kalman filter. <b>2012</b> , 48,	23

1358	Bayesian model averaging using particle filtering and Gaussian mixture modeling: Theory, concepts, and simulation experiments. <b>2012</b> , 48,	36
1357	Estimating the permeability distribution and its uncertainty at the EGS demonstration reservoir Soultz-sous-Forêts using the ensemble Kalman filter. <b>2012</b> , 48,	34
1356	Identification of time-variant river bed properties with the ensemble Kalman filter. <b>2012</b> , 48,	28
1355	Assimilation of water vapor sensitive infrared brightness temperature observations during a high impact weather event. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a	34
1354	Using daily satellite observations to estimate emissions of short-lived air pollutants on a mesoscopic scale. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a	78
1353	Experiments with the assimilation of fine aerosols using an ensemble Kalman filter. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a	62
1352	Ensemble Kalman filter data assimilation of Thermal Emission Spectrometer temperature retrievals into a Mars GCM. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a	50
1351	Localized adaptive inflation in ensemble data assimilation for a radiation belt model. <b>2012</b> , 10, n/a-n/a	13
1350	Inference of permeability distribution from injection-induced discrete microseismic events with kernel density estimation and ensemble Kalman filter. <b>2012</b> , 48,	16
1349	Ensemble Kalman filter versus particle filter for a physically-based coupled surface-subsurface model. <b>2012</b> , 47, 1-13	46
1348	Coupled bred vectors in the tropical Pacific and their application to ENSO prediction. <b>2012</b> , 105, 90-101	5
1347	Effects of Traffic Sensor Location on Traffic State Estimation. <b>2012</b> , 54, 1186-1196	8
1346	Estimating river bathymetry from data assimilation of synthetic SWOT measurements. <b>2012</b> , 464-465, 363-375	98
1345	Multiscale-finite-element-based ensemble Kalman filter for large-scale groundwater flow. <b>2012</b> , 468-469, 22-34	10
1344	Estimating spatially-variable rate constants of denitrification in irrigated agricultural groundwater systems using an Ensemble Smoother. <b>2012</b> , 468-469, 188-202	12
1343	A multi-layer soil moisture data assimilation using support vector machines and ensemble particle filter. <b>2012</b> , 475, 53-64	30
1342	Integration of evolutionary based assimilation into Kalman-type methods for streamflow simulations in ungauged watersheds. <b>2012</b> , 475, 428-440	11
1341	Assimilating NOAA SST data into the BSH operational circulation model for the North and Baltic Seas: Inference about the data. <b>2012</b> , 105-108, 152-162	22



1340 References. **2012**, 642-688

1339 An Iterative EnKF for Strongly Nonlinear Systems. **2012**, 140, 1988-2004

99

1338 Uncertainty and Error. **2012**, 309-346

10

1337 Streamflow Modelling: A Primer on Applications, Approaches and Challenges. **2012**, 50, 507-536

50

1336 A Unification of Ensemble Square Root Kalman Filters. **2012**, 140, 2335-2345

55

1335 Recent advances in regional air-sea coupled models. **2012**, 55, 1391-1405

11

1334 Assimilating MODIS-LAI into Crop Growth Model with EnKF to Predict Regional Crop Yield. **2012**, 410-418

4

1333 A background error covariance model of significant wave height employing Monte Carlo simulation. **2012**, 30, 814-821

4

1332 Parameter identification for Cam-clay model in partial loading model tests using the particle filter. **2012**, 52, 279-298

25

1331 TOPAZ4: an ocean-sea ice data assimilation system for the North Atlantic and Arctic. **2012**, 8, 633-656

215

1330 State updating of a distributed hydrological model with Ensemble Kalman Filtering: effects of updating frequency and observation network density on forecast accuracy. **2012**, 16, 3435-3449

77

1329 Implementations of a square-root ensemble analysis and a hybrid localisation into the POD-based ensemble 4DVar. **2012**, 64, 18375

19

1328 Obstacles and benefits of the implementation of a reduced-rank smoother with a high resolution model of the tropical Atlantic Ocean. **2012**, 8, 797-811

1327 The Ensemble Kalman Filter in Bioeconomics. **2012**,

1326 An integrated uncertainty and ensemble-based data assimilation approach for improved operational streamflow predictions. **2012**, 16, 815-831

28

1325 Estimating geostatistical parameters and spatially-variable hydraulic conductivity within a catchment system using an ensemble smoother. **2012**, 16, 287-304

33

1324 Assimilating GlobColour ocean colour data into a pre-operational physical-biogeochemical model. **2012**, 8, 751-771

38

1323 Estimation of positive sum-to-one constrained zooplankton grazing preferences with the DENKF: a twin experiment. **2012**, 8, 587-602

11

1322	Maximum likelihood estimation of inflation factors on error covariance matrices for ensemble Kalman filter assimilation. <b>2012</b> , 138, 263-273	35
1321	Accelerating and parallelizing minimizations in ensemble and deterministic variational assimilations. <b>2012</b> , 138, 1599-1610	15
1320	Breakdown of hydrostatic balance at convective scales in the forecast errors in the Met Office Unified Model. <b>2012</b> , 138, 1709-1720	13
1319	A hybrid nudging-ensemble Kalman filter approach to data assimilation in WRF/DART. <b>2012</b> , 138, 2066-2078	25
1318	A suboptimal data assimilation algorithm based on the ensemble Kalman filter. <b>2012</b> , 138, 2079-2085	8
1317	Assimilation of RAPID array observations into an ocean model. <b>2012</b> , 138, 2105-2117	14
1316	Adaptation of a particle filtering method for data assimilation in a 1D numerical model used for fog forecasting. <b>2012</b> , 138, 536-551	7
1315	Flow-dependent background-error covariances for a convective-scale data assimilation system. <b>2012</b> , 138, 310-322	32
1314	A regulated localization scheme for ensemble-based Kalman filters. <b>2012</b> , 138, 802-812	41
1313	Improved initial ensemble generation coupled with ensemble square root filters and inflation to estimate uncertainty. <b>2012</b> , 16, 437-453	0
1312	An efficient matrix-free algorithm for the ensemble Kalman filter. <b>2012</b> , 16, 565-575	13
1311	History matching time-lapse seismic data using the ensemble Kalman filter with multiple data assimilations. <b>2012</b> , 16, 639-659	120
1310	Open and coastal seas interactions south of Japan represented by an ensemble Kalman filter. <b>2012</b> , 62, 645-659	17
1309	Argo data assimilation in ocean general circulation model of Northwest Pacific Ocean. <b>2012</b> , 62, 1059-1071	6
1308	Forecasting search areas using ensemble ocean circulation modeling. <b>2012</b> , 62, 1245-1257	18
1307	A new adaptive estimation method of spacecraft thermal mathematical model with an ensemble Kalman filter. <b>2012</b> , 73, 144-155	8
1306	Sequential Monte Carlo methods for parameter estimation in nonlinear state-space models. <b>2012</b> , 44, 70-77	7
1305	Computer simulation of gas generation and transport in landfills: VDynamic updating of the model using the ensemble Kalman filter. <b>2012</b> , 74, 69-78	13

1304	Analysis of imposing tidal dynamics to nested numerical models. <b>2012</b> , 34, 30-40	19
1303	On variational data assimilation for estimating the model initial conditions and emission fluxes for short-term forecasting of SOx concentrations. <b>2012</b> , 46, 318-328	29
1302	Towards an integrated global framework to assess the impacts of land use and management change on soil carbon: current capability and future vision. <b>2012</b> , 18, 2089-2101	117
1301	Development of swing method with sequential data assimilation (SDA-SWING) and its application to groundwater problems in real tunnel construction. <b>2012</b> , 28, 229-237	6
1300	On a nonlinear Kalman filter with simplified divided difference approximation. <b>2012</b> , 241, 671-680	4
1299	A deterministic filter for non-Gaussian Bayesian estimation Applications to dynamical system estimation with noisy measurements. <b>2012</b> , 241, 775-788	39
1298	Sampling Error in Ensemble Kalman Filter for 2-D Groundwater Flow. <b>2012</b> , 12, 899-905	
1297	A comparison study of two different control criteria for the real-time management of urban groundwater works. <b>2012</b> , 105, 21-9	9
1296	Adaptive space-time sampling with wireless sensor nodes for flood forecasting. <b>2012</b> , 414-415, 136-147	20
1295	Implementation of surface soil moisture data assimilation with watershed scale distributed hydrological model. <b>2012</b> , 416-417, 98-117	80
1294	State and parameter update in a coupled energy/hydrologic balance model using ensemble Kalman filtering. <b>2012</b> , 416-417, 171-181	21
1293	Gaussian anamorphosis extension of the DEnKF for combined state parameter estimation: Application to a 1D ocean ecosystem model. <b>2012</b> , 89, 1-18	37
1292	Sequential variations of phytoplankton growth and mortality in an NPZ model: A remote-sensing-based assessment. <b>2012</b> , 92, 16-29	15
1291	Data assimilation with a local Ensemble Kalman Filter applied to a three-dimensional biological model of the Middle Atlantic Bight. <b>2012</b> , 94, 145-156	44
1290	Kalman filtered MR temperature imaging for laser induced thermal therapies. <b>2012</b> , 31, 984-94	13
1289	Runoff evolution in the Swiss Alps: projections for selected high-alpine catchments based on ENSEMBLES scenarios. <b>2012</b> , 26, 1909-1924	126
1288	Application of data assimilation with the Root Zone Water Quality Model for soil moisture profile estimation in the upper Cedar Creek, Indiana. <b>2012</b> , 26, 1707-1719	17
1287	Variational Markov chain Monte Carlo for Bayesian smoothing of non-linear diffusions. <b>2012</b> , 27, 149-176	5

1286	Using an Ensemble Kalman Filter Method to Calibrate Parameters and Update Soluble Chemical Transfer From Soil to Surface Runoff. <b>2012</b> , 91, 133-152	7
1285	Sampling error distribution for the ensemble Kalman filter update step. <b>2012</b> , 16, 455-466	1
1284	A comparison between a Monte Carlo implementation of retrospective optimal interpolation and an ensemble Kalman filter in nonlinear dynamics. <b>2012</b> , 16, 177-192	
1283	Pattern Recognition in a Bimodal Aquifer Using the Normal-Score Ensemble Kalman Filter. <b>2012</b> , 44, 169-185	38
1282	Ensemble Randomized Maximum Likelihood Method as an Iterative Ensemble Smoother. <b>2012</b> , 44, 1-26	184
1281	Assimilating transient groundwater flow data via a localized ensemble Kalman filter to calibrate a heterogeneous conductivity field. <b>2012</b> , 26, 467-478	20
1280	Test models for filtering and prediction of moisture-coupled tropical waves. <b>2013</b> , 139, 119-136	10
1279	Controlling model error of underdamped forecast models in sparse observational networks using a variance-limiting Kalman filter. <b>2013</b> , 139, 212-225	4
1278	Assimilation of radial velocity and reflectivity data from coastal WSR-88D radars using an ensemble Kalman filter for the analysis and forecast of landfalling hurricane Ike (2008). <b>2013</b> , 139, 467-487	44
1277	The impact of localization and observation averaging for convective-scale data assimilation in a simple stochastic model. <b>2013</b> , 139, 515-523	5
1276	A four-dimensional asynchronous ensemble square-root filter (4DEnSRF) algorithm and tests with simulated radar data. <b>2013</b> , 139, 805-819	16
1275	Towards an acoustic-based coupled observation and modelling system for monitoring and predicting ecosystem dynamics of the open ocean. <b>2013</b> , 14, 605-615	57
1274	Assimilation of surface currents into a regional model over Qingdao coastal waters of China. <b>2013</b> , 32, 21-28	4
1273	Evaluating forecasting performance for data assimilation methods: The ensemble Kalman filter, the particle filter, and the evolutionary-based assimilation. <b>2013</b> , 60, 47-63	24
1272	A scaled unscented transformation based directed Gaussian sum filter for nonlinear dynamic system identification. <b>2013</b> , 34, 83-90	1
1271	Assimilation and downscaling of satellite observed soil moisture over the Little River Experimental Watershed in Georgia, USA. <b>2013</b> , 52, 19-33	91
1270	Emissions estimation from satellite retrievals: A review of current capability. <b>2013</b> , 77, 1011-1042	270
1269	Feasibility of Characterizing Snowpack and the Freeze-Thaw State of Underlying Soil Using Multifrequency Active/Passive Microwave Data. <b>2013</b> , 51, 4085-4102	22

1268	Parameter estimation of subsurface flow models using iterative regularized ensemble Kalman filter. <b>2013</b> , 27, 877-897	29
1267	Software for ensemble-based data assimilation systemsImplementation strategies and scalability. <b>2013</b> , 55, 110-118	103
1266	Resampling the ensemble Kalman filter. <b>2013</b> , 55, 44-53	11
1265	A probabilistic parametrization for geological uncertainty estimation using the ensemble Kalman filter (EnKF). <b>2013</b> , 17, 813-832	22
1264	Permeability estimation conditioned to geophysical downhole log data in sandstones of the northern Galilee Basin, Queensland: Methods and application. <b>2013</b> , 93, 43-51	6
1263	Improving particle filters in rainfall-runoff models: Application of the resample-move step and the ensemble Gaussian particle filter. <b>2013</b> , 49, 4005-4021	19
1262	Augmentation of groundwater monitoring networks using information theory and ensemble modeling with pedotransfer functions. <b>2013</b> , 501, 13-24	14
1261	Fundamental principles of data assimilation underlying the Verdandi library: applications to biophysical model personalization within euHeart. <b>2013</b> , 51, 1221-33	31
1260	Approach for uncertainty of turbulence modeling based on data assimilation technique. <b>2013</b> , 85, 2-7	30
1259	The role of constant optimal forcing in correcting forecast models. <b>2013</b> , 56, 434-443	10
1258	A Hybrid MPI/OpenMP Parallel Algorithm and Performance Analysis for an Ensemble Square Root Filter Designed for Multiscale Observations. <b>2013</b> , 30, 1382-1397	17
1257	Improved application of assisted history matching techniques. <b>2013</b> , 109, 327-347	8
1256	Well placement optimization under time-dependent uncertainty using an ensemble Kalman filter and a genetic algorithm. <b>2013</b> , 109, 70-79	22
1255	A methodology for estimating Leaf Area Index by assimilating remote sensing data into crop model based on temporal and spatial knowledge. <b>2013</b> , 23, 550-561	6
1254	Assimilating ASAR data for estimating soil moisture profile using an ensemble Kalman filter. <b>2013</b> , 23, 666-679	2
1253	A homogeneous linear estimation method for system error in data assimilation. <b>2013</b> , 12, 335-344	1
1252	Experiments of LAPS wind and temperature analysis with background error statistics obtained using ensemble methods. <b>2013</b> , 122, 250-269	2
1251	Sparse calibration of subsurface flow models using nonlinear orthogonal matching pursuit and an iterative stochastic ensemble method. <b>2013</b> , 56, 14-26	22

1250	Data assimilation and driver estimation for the Global Ionosphere-Thermosphere Model using the Ensemble Adjustment Kalman Filter. <b>2013</b> , 104, 126-136	30
1249	The streamflow estimation using the Xinanjiang rainfall runoff model and dual state-parameter estimation method. <b>2013</b> , 480, 102-114	77
1248	History matching of petroleum reservoir models by the Ensemble Kalman Filter and parameterization methods. <b>2013</b> , 55, 84-95	26
1247	Information content in Lagrangian sensor measurements for reservoir characterization. <b>2013</b> , 55, 96-109	2
1246	Sea Surface Temperature Modeling using Radial Basis Function Networks With a Dynamically Weighted Particle Filter. <b>2013</b> , 108, 111-123	4
1245	Assimilation of multiple data types for improved heat flux prediction: A one-dimensional field study. <b>2013</b> , 136, 315-329	8
1244	Hydrologic data assimilation using particle Markov chain Monte Carlo simulation: Theory, concepts and applications. <b>2013</b> , 51, 457-478	138
1243	Impact of uncertainties in the horizontal density gradient upon low resolution global ocean modelling. <b>2013</b> , 66, 64-76	50
1242	Mesoscale Modeling over Complex Terrain: Numerical and Predictability Perspectives. <b>2013</b> , 531-589	5
1241	Operational implementation of a hybrid ensemble/4D-Var global data assimilation system at the Met Office. <b>2013</b> , 139, 1445-1461	227
1240	Data assimilation in the laboratory using a rotating annulus experiment. <b>2013</b> , 139, 1488-1504	7
1239	Uncertainty Quantification in the Ensemble Kalman Filter. <b>2013</b> , 40, 868-885	8
1238	Ensemble smoother with multiple data assimilation. <b>2013</b> , 55, 3-15	367
1237	Reduced-order flow modeling and geological parameterization for ensemble-based data assimilation. <b>2013</b> , 55, 54-69	37
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1235	An iterative ensemble square root filter and tests with simulated radar data for storm-scale data assimilation. <b>2013</b> , 139, 1888-1903	10
1234	Ensemble spread-based assessment of observation impact: application to a global ocean analysis system. <b>2013</b> , 139, 1842-1862	18
1233	Hydrological data assimilation with the Ensemble Square-Root-Filter: Use of streamflow observations to update model states for real-time flash flood forecasting. <b>2013</b> , 59, 209-220	69

1232	Non-parametric Bayesian networks for parameter estimation in reservoir simulation: a graphical take on the ensemble Kalman filter (part I). <b>2013</b> , 17, 929-949	7
1231	Simulating variably-saturated reactive transport of selenium and nitrogen in agricultural groundwater systems. <b>2013</b> , 149, 27-45	23
1230	Coupled ensemble flow line advection and analysis. <b>2013</b> , 19, 2733-42	32
1229	One can do better than the unscented Kalman filter for multistatic tracking. <b>2013</b> ,	3
1228	On Disturbance State-Space Models and the Particle Marginal Metropolis-Hastings Sampler. <b>2013</b> , 1, 494-521	9
1227	Low-dimensional functional observer design for linear systems via observer reduction approach. <b>2013</b> ,	5
1226	Distributed ensemble Kalman filter for multisensor application. <b>2013</b> ,	0
1225	An e-Science Environment for Ecological and Hydrological Simulation Research. <b>2013</b> ,	0
1224	Mixture ensemble Kalman filters. <b>2013</b> , 58, 127-138	29
1223	Estimating and including observation-error correlations in data assimilation. <b>2013</b> , 21, 387-398	41
1222	Data assimilation using the particle filter for identifying the elasto-plastic material properties of geomaterials. <b>2013</b> , 37, 1642-1669	23
1221	Forecasting simulations of indoor environment using data assimilation via an Ensemble Kalman Filter. <b>2013</b> , 64, 169-176	21
1220	Probabilistic parameter estimation of a fluttering aeroelastic system in the transitional Reynolds number regime. <b>2013</b> , 332, 3670-3691	13
1219	Impacts of geostationary satellite measurements on CO forecasting: An observing system simulation experiment with GEOS-Chem/LETKF data assimilation system. <b>2013</b> , 74, 123-133	16
1218	Estimating near future regional corn yields by integrating multi-source observations into a crop growth model. <b>2013</b> , 49, 126-140	77
1217	Integrating a very fast simulated annealing optimization algorithm for crop leaf area index variational assimilation. <b>2013</b> , 58, 877-885	23
1216	Estimation of a semi-physical GLBE model using dual EnKF learning algorithm coupled with a sensor network design strategy: Application to air field monitoring. <b>2013</b> , 14, 335-348	
1215	Impacts of snow cover fraction data assimilation on modeled energy and moisture budgets. <b>2013</b> , 118, 7489-7504	24

1214	A partitioned update scheme for state-parameter estimation of distributed hydrologic models based on the ensemble Kalman filter. <b>2013</b> , 49, 7350-7365	30
1213	Modern Statistical Methods in Oceanography: A Hierarchical Perspective. <b>2013</b> , 28,	17
1212	Ensemble-based global ocean data assimilation. <b>2013</b> , 72, 210-230	4
1211	Scheduling satellite-based SAR acquisition for sequential assimilation of water level observations into flood modelling. <b>2013</b> , 495, 252-266	86
1210	Assimilating irregularly spaced sparsely observed turbulent signals with hierarchical Bayesian reduced stochastic filters. <b>2013</b> , 235, 143-160	1
1209	State and parameter update of a hydrodynamic-phytoplankton model using ensemble Kalman filter. <b>2013</b> , 263, 81-91	24
1208	Hindcasts and forecasts of Loop Current and eddies in the Gulf of Mexico using local ensemble transform Kalman filter and optimum-interpolation assimilation schemes. <b>2013</b> , 69, 22-38	17
1207	Estimation of Geothermal Reservoir Properties Using the Ensemble Kalman Filter. <b>2013</b> , 40, 117-126	6
1206	Estimation of transport at open boundaries with an ensemble Kalman filter in a coastal ocean model. <b>2013</b> , 64, 56-66	4
1205	Progress and challenges with Warn-on-Forecast. <b>2013</b> , 123, 2-16	106
1204	Soft-sensors: Model-based estimation of inflow in horizontal wells using the extended Kalman filter. <b>2013</b> , 34, 91-104	14
1203	On a data-model assimilation method to inverse wave-dominated beach bathymetry using heterogeneous video-derived observations. <b>2013</b> , 73, 126-138	8
1202	Estimating random errors of eddy covariance data: An extended two-tower approach. <b>2013</b> , 171-172, 203-219	33
1201	Ensemble Kalman methods for inverse problems. <b>2013</b> , 29, 045001	124
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1199	Geophysical signal processing using sequential Bayesian techniques. <b>2013</b> , 78, V87-V100	1
1198	History matching of fracture distributions by ensemble Kalman filter combined with vector based level set parameterization. <b>2013</b> , 108, 288-303	25
1197	Boosting iterative stochastic ensemble method for nonlinear calibration of subsurface flow models. <b>2013</b> , 259, 10-23	7



1196	A Survey of Observers for Nonlinear Dynamical Systems. <b>2013</b> , 1-25	10
1195	Assimilating satellite-based snow depth and snow cover products for improving snow predictions in Alaska. <b>2013</b> , 54, 208-227	75
1194	Skewness of the Prior Through Position Errors and Its Impact on Data Assimilation. <b>2013</b> , 147-175	0
1193	Evaluating atmospheric CO2 inversions at multiple scales over a highly inventoried agricultural landscape. <b>2013</b> , 19, 1424-39	62
1192	Unscented/ensemble transform-based variational filter. <b>2013</b> , 246, 1-14	5
1191	Ensemble data assimilation for hyperbolic systems. <b>2013</b> , 243, 128-142	12
1190	Using analysis state to construct a forecast error covariance matrix in ensemble Kalman filter assimilation. <b>2013</b> , 30, 1303-1312	6
1189	Ensemble data assimilation in a simple coupled climate model: The role of ocean-atmosphere interaction. <b>2013</b> , 30, 1235-1248	19
1188	Application of data assimilation for improving forecast of water levels and residual currents in Singapore regional waters. <b>2013</b> , 63, 43-61	18
1187	A parallel ensemble-based framework for reservoir history matching and uncertainty characterization. <b>2013</b> , 17, 83-97	5
1186	Investigation of the sampling performance of ensemble-based methods with a simple reservoir model. <b>2013</b> , 17, 325-350	100
1185	Thermospheric mass density specification using an ensemble Kalman filter. <b>2013</b> , 118, 1339-1350	39
1184	Seasonal climatologies of oxygen and phosphates in the Bering Sea reconstructed by variational data assimilation approach. <b>2013</b> , 7, 214-232	2
1183	Efficient fully nonlinear data assimilation for geophysical fluid dynamics. <b>2013</b> , 55, 16-27	15
1182	Inversion of CO emissions over Beijing and its surrounding areas with ensemble Kalman filter. <b>2013</b> , 81, 676-686	32
1181	Clustered iterative stochastic ensemble method for multi-modal calibration of subsurface flow models. <b>2013</b> , 491, 40-55	24
1180	Ensemble Kalman Filtering and Particle Filtering in a Lag-Time Window for Short-Term Streamflow Forecasting with a Distributed Hydrologic Model. <b>2013</b> , 18, 1684-1696	24
1179	Assimilation of stream discharge for flood forecasting: The benefits of accounting for routing time lags. <b>2013</b> , 49, 1887-1900	34

1178	Federated ensemble Kalman filter in no reset mode design. <b>2013</b> ,	2
1177	An exploration of the equivalent weights particle filter. <b>2013</b> , 139, 820-840	64
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1175	Effects of sequential or simultaneous assimilation of observations and localization methods on the performance of the ensemble Kalman filter. <b>2013</b> , 139, 758-770	14
1174	An ensemble Kalman filter for the time-dependent analysis of the geomagnetic field. <b>2013</b> , 14, 4035-4043	28
1173	Anti-noise algorithm of lidar data retrieval by combining the ensemble Kalman filter and the Fernald method. <b>2013</b> , 21, 8286-97	23
1172	Methods and Applications of Ocean Synthesis in Climate Research. <b>2013</b> , 581-608	5
1171	Bridging the ensemble Kalman and particle filters. <b>2013</b> , 100, 781-800	45
1170	Implicit Particle Methods and Their Connection with Variational Data Assimilation. <b>2013</b> , 141, 1786-1803	33
1169	Development of a Mesoscale Ensemble Data Assimilation System at the Naval Research Laboratory. <b>2013</b> , 28, 1322-1336	5
1168	Comparing Limited-Area 3DVAR and Hybrid Variational-Ensemble Data Assimilation Methods for Typhoon Track Forecasts: Sensitivity to Outer Loops and Vortex Relocation. <b>2013</b> , 141, 4350-4372	38
1167	Ensemble-Based Exigent Analysis. Part I: Estimating Worst-Case Weather-Related Forecast Damage Scenarios. <b>2013</b> , 28, 537-556	1
1166	EnKF Assimilation of High-Resolution, Mobile Doppler Radar Data of the 4 May 2007 Greensburg, Kansas, Supercell into a Numerical Cloud Model. <b>2013</b> , 141, 625-648	24
1165	An Ensemble Adjustment Kalman Filter for the CCSM4 Ocean Component. <b>2013</b> , 26, 7392-7413	36
1164	Medium-Range Ensemble Sensitivity Analysis of Two Extreme Pacific Extratropical Cyclones. <b>2013</b> , 141, 211-231	30
1163	An Adjoint-Based Adaptive Ensemble Kalman Filter. <b>2013</b> , 141, 3343-3359	8
1162	A Regional GSI-Based Ensemble Kalman Filter Data Assimilation System for the Rapid Refresh Configuration: Testing at Reduced Resolution. <b>2013</b> , 141, 4118-4139	23
1161	Uncertainty and Predictability of Tropical Cyclone Rainfall Based on Ensemble Simulations of Typhoon Sinlaku (2008). <b>2013</b> , 141, 3517-3538	9

1160	Influence of Mesonet Observations on the Accuracy of Surface Analyses Generated by an Ensemble Kalman Filter. <b>2013</b> , 28, 815-841	9
1159	Regional atmospheric composition modeling with CHIMERE. <b>2013</b> ,	3
1158	The Development of a Hybrid EnKF-3DVAR Algorithm for Storm-Scale Data Assimilation. <b>2013</b> , 2013, 1-12	29
1157	Analysis and Forecast of a Tornadoic Thunderstorm Using Multiple Doppler Radar Data, 3DVAR, and ARPS Model. <b>2013</b> , 2013, 1-18	
1156	An Application of Sequential Variational Method without Tangent Linear and Adjoint Model Integrations. <b>2013</b> , 141, 307-323	1
1155	The Impact of Covariance Localization for Radar Data on EnKF Analyses of a Developing MCS: Observing System Simulation Experiments. <b>2013</b> , 141, 3691-3709	32
1154	E3DVar: Coupling an Ensemble Kalman Filter with Three-Dimensional Variational Data Assimilation in a Limited-Area Weather Prediction Model and Comparison to E4DVar. <b>2013</b> , 141, 900-917	57
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1151	Data Assimilation with Gaussian Mixture Models Using the Dynamically Orthogonal Field Equations. Part II: Applications. <b>2013</b> , 141, 1761-1785	17
1150	The Hurricane Forecast Improvement Project. <b>2013</b> , 94, 329-343	126
1149	Data Assimilation with Gaussian Mixture Models Using the Dynamically Orthogonal Field Equations. Part I: Theory and Scheme. <b>2013</b> , 141, 1737-1760	44
1148	Comparison of Hybrid Ensemble/4DVar and 4DVar within the NAVDAS-AR Data Assimilation Framework. <b>2013</b> , 141, 2740-2758	97
1147	Nonlinear Characteristics of Ensemble Perturbation Evolution and Their Application to Forecasting High-Impact Events. <b>2013</b> , 28, 1353-1365	24
1146	Assimilation of High-Resolution Tropical Cyclone Observations with an Ensemble Kalman Filter Using NOAA/AOML/HRD's HEDAS: Evaluation of the 2008's Vortex-Scale Analyses. <b>2013</b> , 141, 1842-1865	44
1145	Mixed-Resolution Ensemble Data Assimilation. <b>2013</b> , 141, 3007-3021	14
1144	Comparison between Dual-Doppler and EnKF Storm-Scale Wind Analyses: The 29 <sup>th</sup> May 2004 Geary, Oklahoma, Supercell Thunderstorm. <b>2013</b> , 141, 1612-1628	8
1143	Error Covariance Estimation for Coupled Data Assimilation Using a Lorenz Atmosphere and a Simple Pycnocline Ocean Model. <b>2013</b> , 26, 10218-10231	36

1142	The role of additive and multiplicative noise in filtering complex dynamical systems. <b>2013</b> , 469, 20130096	17
1141	Development and verification of a new wind speed forecasting system using an ensemble Kalman filter data assimilation technique in a fully coupled hydrologic and atmospheric model. <b>2013</b> , 5, 785-800	13
1140	A New Data Assimilation Scheme: The Space-Expanded Ensemble Localization Kalman Filter. <b>2013</b> , 2013, 1-6	3
1139	Radar radial wind data assimilation using the time-incremental 4D-Var method implemented to the WRFDA system. <b>2013</b> , 65, 19677	5
1138	Ensemble data assimilation with an adjusted forecast spread. <b>2013</b> , 65, 19929	4
1137	CHIMERE 2013: a model for regional atmospheric composition modelling. <b>2013</b> , 6, 981-1028	325
1136	Low-Level Polarimetric Radar Signatures in EnKF Analyses and Forecasts of the May 8, 2003 Oklahoma City Tornadoic Supercell: Impact of Multimoment Microphysics and Comparisons with Observation. <b>2013</b> , 2013, 1-13	7
1135	Adaptive ensemble Kalman filtering of non-linear systems. <b>2013</b> , 65, 20331	37
1134	Climate Informatics: Accelerating Discovering in Climate Science with Machine Learning. <b>2013</b> , 15, 32-40	20
1133	Data assimilation and parameter estimation via ensemble Kalman filter coupled with stochastic moment equations of transient groundwater flow. <b>2013</b> , 49, 1334-1344	37
1132	Ensemble Data Assimilation to Characterize Surface-Layer Errors in Numerical Weather Prediction Models. <b>2013</b> , 141, 1804-1821	21
1131	Impact of Enthalpy-Based Ensemble Filtering Sea Ice Data Assimilation on Decadal Predictions: Simulation with a Conceptual Pycnocline Prediction Model. <b>2013</b> , 26, 2368-2378	5
1130	Comparison of integrating LAS/MODIS data into a land surface model for improved estimation of surface variables through data assimilation. <b>2013</b> , 34, 3193-3207	2
1129	Ensemble filter based estimation of spatially distributed parameters in a mesoscale dust model: experiments with simulated and real data. <b>2013</b> , 13, 3481-3500	16
1128	Application of ensemble-based data assimilation techniques for aquifer characterization using tracer data at Hanford 300 area. <b>2013</b> , 49, 7064-7076	30
1127	Comparison of ensemble filtering algorithms and null-space Monte Carlo for parameter estimation and uncertainty quantification using CO2 sequestration data. <b>2013</b> , 49, 8108-8127	22
1126	Improving the quantification of terrestrial ecosystem carbon dynamics over the United States using an adjoint method. <b>2013</b> , 4, art118	9
1125	Improvement of Ensemble Smoother with Clustered Covariance for Channelized Reservoirs. <b>2013</b> , 31, 713-726	28

1124	History Matching Of The Norne Full Field Model Using An Iterative Ensemble Smoother. <b>2013,</b>	3
1123	Rapid Updating of Stochastic Models Using an Ensemble Filter Approach. <b>2013,</b>	1
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1118	Assimilation of Microseismic Data into Coupled Flow and Geomechanical Reservoir Models with Ensemble Kalman Filter. <b>2013,</b>	3
1117	Analysis error covariance versus posterior covariance in variational data assimilation. <b>2013, 139, 1826-1841</b>	21
1116	Joint Inversion of Production and Temperature Data for Identification of Permeability Distribution with Depth in Deep Reservoirs. <b>2013,</b>	
1115	An Ensemble Based Nonlinear Orthogonal Matching Pursuit Algorithm for Sparse History Matching of Reservoir Models. <b>2013,</b>	2
1114	References. <b>2013, 227-244</b>	
1113	Operational hydrological data assimilation with the recursive ensemble Kalman filter. <b>2013, 17, 21-38</b>	80
1112	Particle filters. <b>2013, 19,</b>	26
1111	Kalman filter physical retrieval of surface emissivity and temperature from geostationary infrared radiances. <b>2013, 6, 3613-3634</b>	44
1110	Simultaneous estimation of model state variables and observation and forecast biases using a two-stage hybrid Kalman filter. <b>2013, 17, 3499-3521</b>	29
1109	Using ensemble data assimilation to forecast hydrological flumes. <b>2013, 20, 955-964</b>	4
1108	An assessment of particle filtering methods and nudging for climate state reconstructions. <b>2013, 9, 1141-1152</b>	18
1107	Is high-resolution inverse characterization of heterogeneous river bed hydraulic conductivities needed and possible?. <b>2013, 17, 3795-3813</b>	23

1106	A potential implicit particle method for high-dimensional systems. <b>2013</b> , 20, 1047-1060	9
1105	Resolving structural errors in a spatially distributed hydrologic model using ensemble Kalman filter state updates. <b>2013</b> , 17, 3455-3472	8
1104	Data Assimilation of the High-Resolution Sea Surface Temperature Obtained from the Aqua-Terra Satellites (MODIS-SST) Using an Ensemble Kalman Filter. <b>2013</b> , 5, 3123-3139	13
1103	Estimating Model Parameters with Ensemble-Based Data Assimilation: A Review. <b>2013</b> , 91, 79-99	65
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1100	Real-Time Soil Moisture and Salinity Profile Estimation Using Assimilation of Embedded Sensor Datastreams. <b>2013</b> , 12, 1-17	24
1099	A mechanism for catastrophic filter divergence in data assimilation for sparse observation networks. <b>2013</b> , 20, 705-712	27
1098	Hybrid algorithm of ensemble transform and importance sampling for assimilation of non-Gaussian observations. <b>2014</b> , 66, 21429	5
1097	The suitability of remotely sensed soil moisture for improving operational flood forecasting. <b>2014</b> , 18, 2343-2357	178
1096	Assimilating aerosol observations with a Hybrid-Variational-ensemble data assimilation system. <b>2014</b> , 119, 4043-4069	55
1095	Deterministic Predictability of the Most Probable State and Reformulation of Variational Data Assimilation. <b>2014</b> , 92, 599-622	3
1094	A hybrid variational ensemble data assimilation for the High Resolution Limited Area Model (HIRLAM). <b>2014</b> , 21, 303-323	22
1093	Translating aboveground cosmic-ray neutron intensity to high-frequency soil moisture profiles at sub-kilometer scale. <b>2014</b> , 18, 4363-4379	39
1092	Enabling the Use of Earth Observation Data for Integrated Water Resource Management in Africa with the Water Observation and Information System. <b>2014</b> , 6, 7819-7839	21
1091	Kalman filters for assimilating near-surface observations into the Richards equation [Part 1: Retrieving state profiles with linear and nonlinear numerical schemes. <b>2014</b> , 18, 2503-2520	17
1090	A non-Gaussian analysis scheme using rank histograms for ensemble data assimilation. <b>2014</b> , 21, 869-885	14
1089	Estimation of heterogeneous aquifer parameters using centralized and decentralized fusion of hydraulic tomography data. <b>2014</b> , 18, 3207-3223	7

1088	An ETKF approach for initial state and parameter estimation in ice sheet modelling. <b>2014</b> , 21, 569-582	8
1087	Assimilation of HF radar surface currents to optimize forcing in the northwestern Mediterranean Sea. <b>2014</b> , 21, 659-675	35
1086	Four-dimensional ensemble variational (4D-En-Var) data assimilation for the High Resolution Limited Area Model (HIRLAM). <b>2014</b> , 21, 745-762	25
1085	A Step Forward to Closing the Loop between Static and Dynamic Reservoir Modeling. <b>2014</b> , 69, 1201-1225	2
1084	Towards predictive data-driven simulations of wildfire spread [Part I: Reduced-cost Ensemble Kalman Filter based on a Polynomial Chaos surrogate model for parameter estimation. <b>2014</b> , 14, 2951-2973	50
1083	Bibliography. <b>2014</b> , 321-346	
1082	Numerical Comparison of Iterative Ensemble Kalman Filters for Unsaturated Flow Inverse Modeling. <b>2014</b> , 13, 1-12	42
1081	Improving the ensemble transform Kalman filter using a second-order Taylor approximation of the nonlinear observation operator. <b>2014</b> , 21, 955-970	7
1080	Confidence and sensitivity study of the OAFlux multisensor synthesis of the global ocean surface vector wind from 1987 onward. <b>2014</b> , 119, 6842-6862	7
1079	Improving streamflow predictions at ungauged locations with real-time updating: application of an EnKF-based state-parameter estimation strategy. <b>2014</b> , 18, 3923-3936	24
1078	Ensemble Kalman Filtering with a Divided State-Space Strategy for Coupled Data Assimilation Problems*. <b>2014</b> , 142, 4542-4558	9
1077	Empirical Localization of Observations for Serial Ensemble Kalman Filter Data Assimilation in an Atmospheric General Circulation Model. <b>2014</b> , 142, 1835-1851	18
1076	Evaluating Ensemble Kalman, Particle, and Ensemble Particle Filters through Soil Temperature Prediction. <b>2014</b> , 19, 04014027	8
1075	Robust Ensemble Kalman Filter Based on Exponential Cost Function. <b>2014</b> , 16, 1522-1531	3
1074	Soil moisture estimation using an improved particle filter assimilation algorithm. <b>2014</b> ,	
1073	Enhanced biomass prediction by assimilating satellite data into a crop growth model. <b>2014</b> , 62, 437-453	33
1072	Uncertainty Quantification of Channelized Reservoir Using Ensemble Smoother with Selective Measurement Data. <b>2014</b> , 32, 805-816	21
1071	Comparative evaluation of maximum likelihood ensemble filter and ensemble Kalman filter for real-time assimilation of streamflow data into operational hydrologic models. <b>2014</b> , 519, 2663-2675	39

1070	Facies estimation through data assimilation and structure parameterization. <b>2014</b> , 18, 869-882	1
1069	Parameter estimation for stiff deterministic dynamical systems via ensemble Kalman filter. <b>2014</b> , 30, 105008	21
1068	One-dimensional soil temperature simulation with Common Land Model by assimilating in situ observations and MODIS LST with the ensemble particle filter. <b>2014</b> , 50, 6950-6965	13
1067	Edward Epstein's Stochastic Dynamic Approach to Ensemble Weather Prediction. <b>2014</b> , 95, 99-116	6
1066	Representing Forecast Error in a Convection-Permitting Ensemble System. <b>2014</b> , 142, 4519-4541	94
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1064	History matching of facies distribution with varying mean lengths or different principle correlation orientations. <b>2014</b> , 124, 275-292	7
1063	Applications of data assimilation to forecasting indoor environment. <b>2014</b> ,	1
1062	Improving water quality forecasting via data assimilation Application of maximum likelihood ensemble filter to HSPF. <b>2014</b> , 519, 2797-2809	21
1061	Predictability and Genesis of Hurricane Karl (2010) Examined through the EnKF Assimilation of Field Observations Collected during PREDICT. <b>2014</b> , 71, 1260-1275	11
1060	Intercomparison and Coupling of Ensemble and Four-Dimensional Variational Data Assimilation Methods for the Analysis and Forecasting of Hurricane Karl (2010). <b>2014</b> , 142, 3347-3364	20
1059	Ensemble Kalman Filter Analyses and Forecasts of a Severe Mesoscale Convective System Using Different Choices of Microphysics Schemes. <b>2014</b> , 142, 3243-3263	43
1058	Kalman filter data assimilation: targeting observations and parameter estimation. <b>2014</b> , 24, 024406	8
1057	Mesoscale Data Assimilation for a Local Severe Rainfall Event with the NHM-ETKF System. <b>2014</b> , 29, 1093-1105	44
1056	Assimilation of remotely-sensed optical properties to improve marine biogeochemistry modelling. <b>2014</b> , 127, 74-95	32
1055	Impacts of using an ensemble Kalman filter on air quality simulations along the California-Mexico border region during Cal-Mex 2010 field campaign. <b>2014</b> , 499, 141-53	5
1054	Storm-Scale Ensemble Kalman Filter Assimilation of Total Lightning Flash-Extent Data. <b>2014</b> , 142, 3683-3695	29
1053	Pseudo-Orbit Data Assimilation. Part I: The Perfect Model Scenario. <b>2014</b> , 71, 469-482	14



1052	Comparisons of Empirical Localization Techniques for Serial Ensemble Kalman Filters in a Simple Atmospheric General Circulation Model. <b>2014</b> , 142, 739-754	21
1051	Nonglobal Parameter Estimation Using Local Ensemble Kalman Filtering. <b>2014</b> , 142, 2150-2164	13
1050	The Analysis and Prediction of Microphysical States and Polarimetric Radar Variables in a Mesoscale Convective System Using Double-Moment Microphysics, Multinetwork Radar Data, and the Ensemble Kalman Filter. <b>2014</b> , 142, 141-162	49
1049	Reduced-Rank Sigma-Point Kalman Filter and Its Application in ENSO Model. <b>2014</b> , 31, 2350-2366	4
1048	Predictability Characteristics of Landfalling Cyclones along the North American West Coast. <b>2014</b> , 142, 301-319	15
1047	Evaluation of a Cloud-Scale Lightning Data Assimilation Technique and a 3DVAR Method for the Analysis and Short-Term Forecast of the 29 June 2012 Derecho Event. <b>2014</b> , 142, 183-202	57
1046	The Effects of Sampling Errors on the EnKF Assimilation of Inner-Core Hurricane Observations. <b>2014</b> , 142, 1609-1630	21
1045	Theoretical Application of Ensemble Kalman Filter to Adsorptive Solute Cr(VI) Transfer from Soil into Surface Runoff. <b>2014</b> , 919-921, 1257-1261	
1044	Errors in Ensemble Kalman Smoother Estimates of Cloud Microphysical Parameters. <b>2014</b> , 142, 1631-1654	27
1043	Bayesian tracking of emerging epidemics using ensemble optimal statistical interpolation. <b>2014</b> , 10, 39-48	9
1042	Real-Time Environmental Monitoring for Cloud-Based Hydrogeological Modeling with HydroGeoSphere. <b>2014</b> ,	6
1041	Optimization of carbon emissions in smart grids. <b>2014</b> ,	2
1040	A GSI-Based Coupled EnSRFEn3DVar Hybrid Data Assimilation System for the Operational Rapid Refresh Model: Tests at a Reduced Resolution. <b>2014</b> , 142, 3756-3780	48
1039	Efficient Characterization of Uncertain Model Parameters with a Reduced-Order Ensemble Kalman Filter. <b>2014</b> , 36, B198-B224	6
1038	Improved Estimation of the Specific Differential Phase Shift Using a Compilation of Kalman Filter Ensembles. <b>2014</b> , 52, 5137-5149	19
1037	An adaptive sparse-grid iterative ensemble Kalman filter approach for parameter field estimation. <b>2014</b> , 91, 798-817	7
1036	Evaluation of Model Parameter Convergence when Using Data Assimilation for Soil Moisture Estimation. <b>2014</b> , 15, 359-375	11
1035	An Observing System Simulation Experiments framework based on the ensemble square root Kalman Filter for evaluating the concentration of chlorophyll a by multi-source data: A case study in Taihu Lake. <b>2014</b> , 17, 233-241	

1034	Improvement of aerosol optical properties modeling over Eastern Asia with MODIS AOD assimilation in a global non-hydrostatic icosahedral aerosol transport model. <b>2014</b> , 195, 319-29	35
1033	Real-Time Ensemble Control with Reduced-Order Modeling. <b>2014</b> , 36, B749-B775	2
1032	Parameter sampling capabilities of sequential and simultaneous data assimilation: I. Analytical comparison. <b>2014</b> , 30, 114002	15
1031	Sequential streamflow assimilation for short-term hydrological ensemble forecasting. <b>2014</b> , 519, 2692-2706	42
1030	Characterizing and Optimizing Precipitation Forecasts from a Convection-Permitting Ensemble Initialized by a Mesoscale Ensemble Kalman Filter. <b>2014</b> , 29, 1295-1318	80
1029	Dynamic updating of numerical model discrepancy using sequential sampling. <b>2014</b> , 30, 114019	14
1028	Impact of Temporal Autocorrelation Mismatch on the Assimilation of Satellite-Derived Surface Soil Moisture Retrievals. <b>2014</b> , 7, 3534-3542	6
1027	Assimilation of SMOS soil moisture in the MESH model with the ensemble Kalman filter. <b>2014</b> ,	
1026	A nested sampling particle filter for nonlinear data assimilation. <b>2014</b> , 140, 1640-1653	3
1025	Estimation and diagnosis of heterogeneous flow-dependent background-error covariances at the convective scale using either large or small ensembles. <b>2014</b> , 140, 2050-2061	17
1024	The Non-hydrostatic Icosahedral Atmospheric Model: description and development. <b>2014</b> , 1,	215
1023	Parameter sampling capabilities of sequential and simultaneous data assimilation: II. Statistical analysis of numerical results. <b>2014</b> , 30, 114003	14
1022	Comparison of Surface Wind and Temperature Analyses from an Ensemble Kalman Filter and the NWS Real-Time Mesoscale Analysis System. <b>2014</b> , 29, 1058-1075	8
1021	A Comparison of Ensemble Kalman Filters for Storm Surge Assimilation. <b>2014</b> , 142, 2899-2914	17
1020	A Distributed-Memory Parallelization of a Shared-Memory Parallel Ensemble Kalman Filter. <b>2014</b> ,	
1019	A Compensatory Approach of the Fixed Localization in EnKF. <b>2014</b> , 142, 3713-3733	11
1018	Variational data assimilation via sparse regularisation. <b>2014</b> , 66, 21789	9
1017	History Matching of the Norne Full-Field Model With an Iterative Ensemble Smoother. <b>2014</b> , 17, 244-256	53

1016	Comparison of the ensemble Kalman filter and 4D-Var assimilation methods using a stratospheric tracer transport model. <b>2014</b> , 7, 1451-1465	20
1015	Regional scale ozone data assimilation using an ensemble Kalman filter and the CHIMERE chemical transport model. <b>2014</b> , 7, 283-302	27
1014	Data assimilation of GRACE terrestrial water storage estimates into a regional hydrological model of the Rhine River basin. <b>2014</b> ,	2
1013	Improving quantitative precipitation nowcasting with a local ensemble transform Kalman filter radar data assimilation system: observing system simulation experiments. <b>2014</b> , 66, 21804	12
1012	Use of NWP for Nowcasting Convective Precipitation: Recent Progress and Challenges. <b>2014</b> , 95, 409-426	217
1011	Convection-Permitting Forecasts Initialized with Continuously Cycling Limited-Area 3DVAR, Ensemble Kalman Filter, and Hybrid Variational Ensemble Data Assimilation Systems. <b>2014</b> , 142, 716-738	56
1010	Horizontally Integrated Remote Measurements of Ocean Currents Using Acoustic Tomography Techniques. <b>2014</b> , 201-239	1
1009	On-line state estimation of nonlinear dynamic systems with gross errors. <b>2014</b> , 70, 149-159	35
1008	Retrieval of leaf area index using temporal, spectral, and angular information from multiple satellite data. <b>2014</b> , 145, 25-37	51
1007	Sequential Monte Carlo sampling in hidden Markov models of nonlinear dynamical systems. <b>2014</b> , 233, 507-521	1
1006	Derivative-free optimization for large-scale nonlinear data assimilation problems. <b>2014</b> , 140, 943-957	2
1005	Forecast Evaluation of an Observing System Simulation Experiment Assimilating Both Radar and Satellite Data. <b>2014</b> , 142, 107-124	22
1004	Investigating soil moisture sensitivity to precipitation and evapotranspiration errors using SiB2 model and ensemble Kalman filter. <b>2014</b> , 28, 681-693	9
1003	Prediction and monitoring of monsoon intraseasonal oscillations over Indian monsoon region in an ensemble prediction system using CFSv2. <b>2014</b> , 42, 2801-2815	53
1002	Simulations of two types of El Niño events by an optimal forcing vector approach. <b>2014</b> , 43, 1677-1692	28
1001	Bayesian inference applied to spatio-temporal reconstruction of flows around a NACA0012 airfoil. <b>2014</b> , 55, 1	11
1000	An iterative version of the adaptive Gaussian mixture filter. <b>2014</b> , 18, 579-595	13
999	Upper Atmosphere Data Assimilation With an Ensemble Kalman Filter. <b>2014</b> , 273-282	4

998	Improving the estimation of hydrological states in the SWAT model via the ensemble Kalman smoother: Synthetic experiments for the Heihe River Basin in northwest China. <b>2014</b> , 67, 32-45	24
997	Joint assimilation of piezometric heads and groundwater temperatures for improved modeling of river-aquifer interactions. <b>2014</b> , 50, 1665-1688	42
996	On self-potential data for estimating permeability in enhanced geothermal systems. <b>2014</b> , 51, 201-213	10
995	Subsurface characterization with localized ensemble Kalman filter employing adaptive thresholding. <b>2014</b> , 69, 181-196	7
994	Application of a data assimilation method via an ensemble Kalman filter to reactive urea hydrolysis transport modeling. <b>2014</b> , 28, 729-741	3
993	Application of a hillslope-scale soil moisture data assimilation system to military trafficability assessment. <b>2014</b> , 51, 53-66	15
992	Covariance Matrix Localization Using Drainage Area in an Ensemble Kalman Filter. <b>2014</b> , 36, 2154-2165	14
991	Improving estimation accuracy of particle filter by efficient interpolation based on crossover. <b>2014</b> ,	0
990	Mobile Station Tracking in Multipath Wireless Networks Using Ensemble Square Root Filter. <b>2014</b> ,	
989	Modified ensemble Kalman filter for nuclear accident atmospheric dispersion: prediction improved and source estimated. <b>2014</b> , 280, 143-55	39
988	The benefits of using remotely sensed soil moisture in parameter identification of large-scale hydrological models. <b>2014</b> , 50, 6874-6891	122
987	On the Choice of an Optimal Localization Radius in Ensemble Kalman Filter Methods. <b>2014</b> , 142, 2165-2175	29
986	Assessment of SWE data assimilation for ensemble streamflow predictions. <b>2014</b> , 519, 2737-2746	23
985	Simulation of Monsoon Depressions Using WRF-VAR: Impact of Different Background Error Statistics and Lateral Boundary Conditions. <b>2014</b> , 142, 3586-3613	22
984	Comparisons of different ensemble schemes for glider data assimilation on West Florida Shelf. <b>2014</b> , 81, 13-24	28
983	Assimilating remote sensing information into a coupled hydrology-crop growth model to estimate regional maize yield in arid regions. <b>2014</b> , 291, 15-27	79
982	A Probabilistic Approach to Adaptive Covariance Localization for Serial Ensemble Square Root Filters. <b>2014</b> , 142, 4499-4518	16
981	The Impact of Data Assimilation Length Scales on Analysis and Prediction of Convective Storms. <b>2014</b> , 142, 3781-3808	37

980	Nonlinear measurement function in the ensemble Kalman filter. <b>2014</b> , 31, 551-558	20
979	Adaptive Conditioning of Multiple-Point Statistical Facies Simulation to Flow Data with Probability Maps. <b>2014</b> , 46, 573-595	3
978	Assimilating passive microwave remote sensing data into a land surface model to improve the estimation of snow depth. <b>2014</b> , 143, 54-63	56
977	Inference of permeability heterogeneity from joint inversion of transient flow and temperature data. <b>2014</b> , 50, 4710-4725	11
976	Higher Resolution in an Operational Ensemble Kalman Filter. <b>2014</b> , 142, 1143-1162	83
975	Assimilating the along-track sea level anomaly into the regional ocean modeling system using the ensemble optimal interpolation. <b>2014</b> , 33, 72-82	7
974	The effect of optimization and the nesting domain on carbon flux analyses in Asia using a carbon tracking system based on the ensemble Kalman filter. <b>2014</b> , 50, 327-344	8
973	Assimilation of Doppler radar observations with an ensemble square root filter: A squall line case study. <b>2014</b> , 28, 230-251	3
972	Radar Data Assimilation in the Canadian High-Resolution Ensemble Kalman Filter System: Performance and Verification with Real Summer Cases. <b>2014</b> , 142, 2118-2138	17
971	Analysis of the hydrological response of a distributed physically-based model using post-assimilation (EnKF) diagnostics of streamflow and in situ soil moisture observations. <b>2014</b> , 514, 192-201	25
970	Comparison of Ensemble Kalman Filter groundwater-data assimilation methods based on stochastic moment equations and Monte Carlo simulation. <b>2014</b> , 66, 8-18	23
969	State estimation of tidal hydrodynamics using ensemble Kalman filter. <b>2014</b> , 63, 45-56	14
968	Inverse methods in hydrogeology: Evolution and recent trends. <b>2014</b> , 63, 22-37	205
967	Water pollution estimation based on the 2D transport-diffusion model and the Singular Evolutive Interpolated Kalman filter. <b>2014</b> , 342, 106-124	4
966	An ensemble recentering Kalman filter with an application to Argo temperature data assimilation into the NASA GEOS-5 coupled model. <b>2014</b> , 77, 50-55	4
965	Online Modelling of Water Distribution System Using Data Assimilation. <b>2014</b> , 70, 1261-1270	11
964	Improving numerical forecast accuracy with ensemble Kalman filter and chaos theory: Case study on Ciliwung river model. <b>2014</b> , 512, 540-548	5
963	Inequality constrained parameter estimation using filtering approaches. <b>2014</b> , 106, 211-221	4

962	Ensemble based prediction of water levels and residual currents in Singapore regional waters for operational forecasting. <b>2014</b> , 54, 24-38	21
961	An adaptive ANOVA-based PCKF for high-dimensional nonlinear inverse modeling. <b>2014</b> , 258, 752-772	24
960	Estimation of pressure and saturation fields from time-lapse impedance data using the ensemble smoother. <b>2014</b> , 11, 035007	4
959	A multimodel data assimilation framework via the ensemble Kalman filter. <b>2014</b> , 50, 4197-4219	41
958	Estimation of temporal evolution of the helium plasmasphere based on a sequence of IMAGE/EUV images. <b>2014</b> , 119, 3708-3723	6
957	Modelling of local length-scale dynamics and isotropizing deformations. <b>2014</b> , 140, 1387-1398	12
956	Principal Component Geostatistical Approach for large-dimensional inverse problems. <b>2014</b> , 50, 5428-5443	44
955	Variations of heat transport in the northwestern Pacific marginal seas inferred from high-resolution reanalysis. <b>2014</b> , 121, 98-108	10
954	Minimization for conditional simulation: Relationship to optimal transport. <b>2014</b> , 265, 1-15	15
953	Identifying a land use change cellular automaton by Bayesian data assimilation. <b>2014</b> , 53, 121-136	34
952	Iterated gain-based stochastic filters for dynamic system identification. <b>2014</b> , 351, 1093-1111	4
951	Effects of inferring unobserved thermospheric and ionospheric state variables by using an Ensemble Kalman Filter on global ionospheric specification and forecasting. <b>2014</b> , 119, 9256-9267	30
950	Data Assimilation for Turbulent Flows. <b>2014</b> ,	6
949	Adaptive Observation Strategy for Dispersion Process Estimation Using Cooperating Mobile Sensors. <b>2014</b> , 47, 5302-5308	5
948	Estimation of analysis and forecast error variances. <b>2014</b> , 66, 21767	12
947	A mechanistic modeling and data assimilation framework for Mojave Desert ecohydrology. <b>2014</b> , 50, 4662-4685	9
946	Detection of detached dust layers in the Martian atmosphere from their thermal signature using assimilation. <b>2014</b> , 41, 6620-6626	19
945	A Kalman filter powered by -matrices for quasi-continuous data assimilation problems. <b>2014</b> , 50, 3734-3749	23

944	Global simulations of aerosol amount and size using MODIS observations assimilated with an Ensemble Kalman Filter. <b>2014</b> , 119, 12,780-12,806	11
943	Hybrid Hydrologic Modeling. <b>2014</b> , 347-368	9
942	Assessing Near-Surface Soil Moisture Assimilation Impacts on Modeled Root-Zone Moisture for an Australian Agricultural Landscape. <b>2014</b> , 305-317	1
941	Assimilation of Satellite Soil Moisture Retrievals into a Hydrologic Model for Improving River Discharge. <b>2014</b> , 319-329	2
940	Assimilation of MODIS snow cover through the Data Assimilation Research Testbed and the Community Land Model version 4. <b>2014</b> , 119, 7091-7103	48
939	The 10,240-member ensemble Kalman filtering with an intermediate AGCM. <b>2014</b> , 41, 5264-5271	53
938	Optimal Localization for Ensemble Kalman Filter Systems. <b>2014</b> , 92, 585-597	18
937	DATA ASSIMILATION TO THE FLLOD FORECASTING MODEL OF THE REAL TIME WATER LEVEL USING THE UNSCENTED KALMAN FILTER. <b>2014</b> , 70, 1_409-1_414	
936	The 1000-Member Ensemble Kalman Filtering with the JMA Nonhydrostatic Mesoscale Model on the K Computer. <b>2014</b> , 92, 623-633	18
935	Assimilation of soil moisture using Ensemble Kalman Filter. <b>2014</b> ,	
934	Improving Reservoir History Matching of EM heated Heavy Oil Reservoirs via Cross-well Seismic Tomography. <b>2014</b> ,	2
933	Data Assimilation of InSAR Measurements for Large Scale Reservoirs. <b>2014</b> ,	3
932	Sea-Ice Concentration Multivariate Assimilation for the Canadian East Coast in a Coupled Sea Ice-Ocean Model. <b>2014</b> , 52, 418-433	2
931	Rapid Updating of Stochastic Models by Use of an Ensemble-Filter Approach. <b>2014</b> , 19, 500-513	15
930	Using Crosswell Data To Enhance History Matching. <b>2014</b> ,	3
929	Coupled flow-geomechanical performance assessment of CO2 storage sites using the Ensemble Kalman Filter. <b>2014</b> , 63, 3475-3482	4
928	A nonparametric adaptive nonlinear statistical filter. <b>2014</b> ,	
927	Parameter estimation of a physically based land surface hydrologic model using the ensemble Kalman filter: A synthetic experiment. <b>2014</b> , 50, 706-724	48

926	Population-based sampling methods for geological well testing. <b>2015</b> , 19, 1089-1107	6
925	Data assimilation for improved predictions of integrated terrestrial systems. <b>2015</b> , 86, 257-259	2
924	Improving the PM10 estimates of the air quality model AURORA by using Optimal Interpolation. <b>2015</b> , 48, 1154-1159	1
923	A drifting GPS buoy for retrieving effective riverbed bathymetry. <b>2015</b> , 520, 397-406	21
922	Extending the Square Root Method to Account for Additive Forecast Noise in Ensemble Methods. <b>2015</b> , 143, 3857-3873	25
921	NCAR's Experimental Real-Time Convection-Allowing Ensemble Prediction System. <b>2015</b> , 30, 1645-1654	93
920	Implementation of a dynamic equation constraint based on the steady state momentum equations within the WRF hybrid ensemble-3DVar data assimilation system and test with radar T-TREC wind assimilation for tropical Cyclone Chanthu (2010). <b>2015</b> , 120, 4017-4039	18
919	Storm-Scale Data Assimilation and Ensemble Forecasting with the NSSL Experimental Warn-on-Forecast System. Part I: Radar Data Experiments. <b>2015</b> , 30, 1795-1817	69
918	The equivalent-weights particle filter in a high-dimensional system. <b>2015</b> , 141, 484-503	49
917	A Hybrid Global Ocean Data Assimilation System at NCEP. <b>2015</b> , 143, 4660-4677	41
916	Nonlinear Kalman filter based on duality relations between continuous and discrete-state stochastic processes. <b>2015</b> , 92, 043302	3
915	The Potential Utility of High-Resolution Ensemble Sensitivity Analysis for Observation Placement during Weak Flow in Complex Terrain. <b>2015</b> , 30, 1521-1536	10
914	SWOT data assimilation for operational reservoir management on the upper Niger River Basin. <b>2015</b> , 51, 554-575	58
913	Analysis of the Ensemble and Polynomial Chaos Kalman Filters in Bayesian Inverse Problems. <b>2015</b> , 3, 823-851	37
912	Integration of microseismic monitoring data into coupled flow and geomechanical models with ensemble Kalman filter. <b>2015</b> , 51, 5177-5197	19
911	Statistical inference for dynamical systems: A review. <b>2015</b> , 9,	11
910	Data assimilation using a climatologically augmented local ensemble transform Kalman filter. <b>2015</b> , 67, 26617	11
909	Evaluation of two modified Kalman gain algorithms for radar data assimilation in the WRF model. <b>2015</b> , 67, 25950	1



908	Efficient Sampling Scheme for Uncertainty Quantification Using PCA. <b>2015,</b>	0
907	The ensemble Kalman filter and its relations to other nonlinear filters. <b>2015,</b>	7
906	Hierarchical Multiscale Methods for Life-Cycle Production Optimization: A Field Case Study. <b>2015,</b>	2
905	Data Assimilation for Strongly Nonlinear Problems by Transformed Ensemble Kalman Filter. <b>2015,</b> 20, 202-221	11
904	Data assimilation by artificial neural networks for the global FSU atmospheric model: Surface pressure. <b>2015,</b>	3
903	Parameter estimation of a physically-based land surface hydrologic model using an ensemble Kalman filter: A multivariate real-data experiment. <b>2015,</b> 83, 421-427	32
902	A data assimilation-based method for optimizing parameterization schemes in a land surface process model. <b>2015,</b> 58, 2220-2235	
901	Characterisation of river-aquifer exchange fluxes: The role of spatial patterns of riverbed hydraulic conductivities. <b>2015,</b> 531, 111-123	24
900	Error covariance calculation for forecast bias estimation in hydrologic data assimilation. <b>2015,</b> 86, 284-296	6
899	Exploration of sequential streamflow assimilation in snow dominated watersheds. <b>2015,</b> 86, 414-424	3
898	Experiences in multiyear combined state-parameter estimation with an ecosystem model of the North Atlantic and Arctic Oceans using the Ensemble Kalman Filter. <b>2015,</b> 152, 1-17	29
897	Facies Parameterization and Estimation for Complex Reservoirs - The Brugge Field. <b>2015,</b>	1
896	Establishment and tests of EnOI assimilation module for WAVEWATCH III. <b>2015,</b> 33, 1295-1308	2
895	Flow Control Optimisation to Maximise the Accuracy of Multi-phase Flow Rate Allocation. <b>2015,</b>	1
894	A comparison between the Local Ensemble Transform Kalman Filter and the Ensemble Square Root Filter for the assimilation of radar data in convective-scale models. <b>2015,</b> 141, 1163-1176	12
893	Dynamic responses of the Earth's outer core to assimilation of observed geomagnetic secular variation. <b>2015,</b> 2,	6
892	Efficient data-worth analysis for the selection of surveillance operation in a geologic CO2 sequestration system. <b>2015,</b> 5, 513-529	2
891	On the Impact of Additive Noise in Storm-Scale EnKF Experiments. <b>2015,</b> 143, 3067-3086	12

890	Ensemble Mean Storm-Scale Performance in the Presence of Nonlinearity. <b>2015</b> , 143, 5115-5133	5
889	Time-Expanded Sampling for Ensemble-Based Data Assimilation Applied to Conventional and Satellite Observations. <b>2015</b> , 30, 855-872	4
888	Numerical study of a regularized barotropic vorticity model of geophysical flow. <b>2015</b> , 31, 1492-1514	3
887	Data assimilation in atmospheric chemistry models: current status and future prospects for coupled chemistry meteorology models. <b>2015</b> , 15, 5325-5358	141
886	Assessing the impacts of assimilating IASI and MOPITT CO retrievals using CESM-CAM-chem and DART. <b>2015</b> , 120, 10,501	15
885	An adaptive covariance relaxation method for ensemble data assimilation. <b>2015</b> , 141, 2898-2906	28
884	Sensitivity of Limited-Area Hybrid Variational-Ensemble Analyses and Forecasts to Ensemble Perturbation Resolution. <b>2015</b> , 143, 3454-3477	29
883	Strongly Coupled Data Assimilation Using Leading Averaged Coupled Covariance (LACC). Part II: CGCM Experiments*. <b>2015</b> , 143, 4645-4659	23
882	Evaluating Forecast Impact of Assimilating Microwave Humidity Sounder (MHS) Radiances with a Regional Ensemble Kalman Filter Data Assimilation System. <b>2015</b> , 30, 964-983	15
881	Empirical Localization Functions for Ensemble Kalman Filter Data Assimilation in Regions with and without Precipitation. <b>2015</b> , 143, 3664-3679	10
880	Assimilation of oceanographic observations with estimates of vertical background-error covariances by a Bayesian hierarchical model. <b>2015</b> , 141, 182-194	4
879	Retrospective-Cost-Based Adaptive Input and State Estimation for the Ionosphere-Thermosphere. <b>2015</b> , 12, 767-783	4
878	Basin-scale runoff prediction: An Ensemble Kalman Filter framework based on global hydrometeorological data sets. <b>2015</b> , 51, 8450-8475	14
877	Modelling of flow-dependent ensemble-based background-error correlations using a wavelet formulation in 4D-Var at Météo-France. <b>2015</b> , 141, 2803-2812	24
876	Approximate Bayesian Computation for a Class of Time Series Models. <b>2015</b> , 83, 405-435	17
875	Nudging, Ensemble, and Nudging Ensembles for Data Assimilation in the Presence of Model Error. <b>2015</b> , 143, 2600-2610	14
874	Ensemble Filtering and Low-Resolution Model Error: Covariance Inflation, Stochastic Parameterization, and Model Numerics. <b>2015</b> , 143, 3912-3924	17
873	Operational aspects of asynchronous filtering for flood forecasting. <b>2015</b> , 19, 2911-2924	24

872	Comparing the ensemble and extended Kalman filters for in situ soil moisture assimilation with contrasting conditions. <b>2015</b> , 19, 4811-4830	17
871	Application of the Ensemble Kalman Filter to a One-Dimensional Linear Advection Model. <b>2015</b> , 804, 287-290	
870	A bimodality trap in model projections. <b>2015</b> , 25, 036412	2
869	Assessment of an ensemble system that assimilates Jason-1/Envisat altimeter data in a probabilistic model of the North Atlantic ocean circulation. <b>2015</b> , 11, 425-438	11
868	Could a Subsonic Air-Launched Reusable Launch Vehicle (RLV) Enable a Paradigm Shift in Space Operations?. <b>2015</b> , 185-217	
867	Verification against perturbed analyses and observations. <b>2015</b> , 22, 403-411	6
866	Temporal Upscaling and Reconstruction of Thermal Remotely Sensed Instantaneous Evapotranspiration. <b>2015</b> , 7, 3400-3425	29
865	The potential of flood forecasting using a variable-resolution global Digital Terrain Model and flood extents from Synthetic Aperture Radar images. <b>2015</b> , 3,	9
864	Data assimilation of GRACE terrestrial water storage estimates into a regional hydrological model of the Rhine River basin. <b>2015</b> , 19, 2079-2100	60
863	A Hybrid Optimization Method for Solving Bayesian Inverse Problems under Uncertainty. <b>2015</b> , 10, e0132418	2
862	A Study of Coupling Parameter Estimation Implemented by 4D-Var and EnKF with a Simple Coupled System. <b>2015</b> , 2015, 1-16	4
861	Space Operations: Innovations, Inventions, and Discoveries. <b>2015</b> ,	2
860	Toward the assimilation of images. <b>2015</b> , 22, 15-32	8
859	Data assimilation experiments using diffusive back-and-forth nudging for the NEMO ocean model. <b>2015</b> , 22, 233-248	7
858	DATA ASSIMILATION AND PREDICTABILITY   Ensemble-Based Data Assimilation. <b>2015</b> , 241-247	2
857	Self-modifying CA model using dual ensemble Kalman filter for simulating urban land-use changes. <b>2015</b> , 29, 1612-1631	6
856	Evaluation of Wind Forecasts and Observation Impacts from Variational and Ensemble Data Assimilation for Wind Energy Applications. <b>2015</b> , 143, 3230-3245	13
855	An assessment of ocean climate reanalysis by the data assimilation system of KIOST from 1947 to 2012. <b>2015</b> , 91, 1-22	10

854	Systematic Comparison of Four-Dimensional Data Assimilation Methods With and Without the Tangent Linear Model Using Hybrid Background Error Covariance: E4DVar versus 4DEnVar. <b>2015</b> , 143, 1601-1621	14
853	Assimilation of surface NO <sub>2</sub> and O <sub>3</sub> observations into the SILAM chemistry transport model. <b>2015</b> , 8, 191-203	11
852	Jointly updating the mean size and spatial distribution of facies in reservoir history matching. <b>2015</b> , 19, 727-746	8
851	Background error statistics for aerosol variables from WRF/Chem predictions in Southern California. <b>2015</b> , 51, 123-135	2
850	Kalman Filters for Dynamic and Secure Smart Grid State Estimation. <b>2015</b> , 1, 29-36	8
849	Two-point or multiple-point statistics? A comparison between the ensemble Kalman filtering and the ensemble pattern matching inverse methods. <b>2015</b> , 86, 297-310	14
848	Advances in sensitivity-based nonlinear model predictive control and dynamic real-time optimization. <b>2015</b> , 30, 104-116	55
847	A particle batch smoother for soil moisture estimation using soil temperature observations. <b>2015</b> , 83, 111-122	37
846	Model-data assimilation of multiple phenological observations to constrain and predict leaf area index. <b>2015</b> , 25, 546-58	22
845	A generic approach to explicit simulation of uncertainty in the NEMO ocean model. <b>2015</b> , 8, 1285-1297	40
844	Combined UV irradiance from TOMS-OMI satellite and UVMRP ground measurements across the continental U.S.. <b>2015</b> ,	2
843	The compressed state Kalman filter for nonlinear state estimation: Application to large-scale reservoir monitoring. <b>2015</b> , 51, 9942-9963	19
842	Using real-time sensing data for predicting future state of building fires. <b>2015</b> ,	3
841	Big Ensemble Data Assimilation in Numerical Weather Prediction. <b>2015</b> , 48, 15-21	28
840	Monitoring an Advection-Diffusion Process Using Aerial Mobile Sensors. <b>2015</b> , 03, 221-238	9
839	Traffic State Estimation with the Advanced Probe Vehicles Using Data Assimilation. <b>2015</b> ,	19
838	Scenario Based Implicit Dual Model Predictive Control. <b>2015</b> , 48, 416-421	7
837	Assimilation of oceanic observations in a global coupled Earth system model with the SEIK filter. <b>2015</b> , 96, 254-264	16

- 836 The prediction on the 2015/16 El Niño event from the perspective of FIO-ESM. **2015**, 34, 67-71 16
- 835 A Real-Time Convection-Allowing Ensemble Prediction System Initialized by Mesoscale Ensemble Kalman Filter Analyses. **2015**, 30, 1158-1181 46
- 834 A particle filter to reconstruct a free-surface flow from a depth camera. **2015**, 47, 051404 8
- 833 A coupled ensemble filtering and probabilistic collocation approach for uncertainty quantification of hydrological models. **2015**, 530, 255-272 26
- 832 Estimation of wind forcing and analysis of near-inertial motions generated by a storm in a submarine canyon with an ensemble Kalman filter. **2015**, 94, 17-27 1
- 831 Real-time reservoir model updating in thermal recovery: Application of analytical proxies and Kalman filtering. **2015**, 127, 196-211 2
- 830 A Kalman estimation based oil/water two-phase flow measurement with CRCC. **2015**, 72, 306-317 26
- 829 A Bayesian inference framework for fault slip distributions based on ensemble modelling of the uncertainty of underground structure: with a focus on uncertain fault dip. **2021**, 225, 1392-1411 1
- 828 Water balance estimation in Australia through the merging of satellite observations with models. **2021**, 29-42
- 827 An international initiative of predicting the SARS-CoV-2 pandemic using ensemble data assimilation. **2021**, 3, 413 2
- 826 Efficient Image Reconstruction Algorithm for ECT System Using Local Ensemble Transform Kalman Filter. **2021**, 9, 12779-12790 7
- 825 Learning landmark geodesics using the ensemble Kalman filter. **2021**,
- 824 Assimilation of Images via Dictionary Learning-Based Sparsity Regularization Strategy: An Application for Retrieving Fluid Flows. **2021**, 1-20
- 823 Data Assimilation Using Heteroscedastic Bayesian Neural Network Ensembles for Reduced-Order Flame Models. **2021**, 408-419 1
- 822 Nonlinear Conditional Model Bias Estimation for Data Assimilation. **2021**, 20, 299-332 0
- 821 Research on Prediction of Metro Surface Deformation Based on Ensemble Kalman Filter. 632, 022047
- 820 An Analytical Four-Dimensional Ensemble-Variational Data Assimilation Scheme. **2021**, 13, e2020MS002314 1
- 819 A Study on a Marine Reservoir and a Fluvial Reservoir History Matching Based on Ensemble Kalman Filter. **2021**, 258-267

818	Assimilation of radar reflectivity volumes in a pre-operational framework. <b>2021</b> , 147, 1031-1054	4
817	Eigenvector-spatial localisation. <b>2021</b> , 73, 1-18	1
816	Degenerate Gaussian Sum Filter for Onboard Satellite Navigation and Satellite Reentry. <b>2021</b> ,	
815	A Multivariate Balanced Initial Ensemble Generation Approach for an Atmospheric General Circulation Model. <b>2021</b> , 13, 122	1
814	Deep Learning for Prediction of Complex Geology Ahead of Drilling. <b>2021</b> , 466-479	
813	Encyclopedia of Mathematical Geosciences. <b>2021</b> , 1-7	
812	Deep-Learning-Based Inverse Modeling Approaches: A Subsurface Flow Example. <b>2021</b> , 126, e2020JB020549	11
811	Minimum-correction second-moment matching: theory, algorithms and applications. <b>2021</b> , 147, 611	1
810	Earth data assimilation in hydrologic models: recent advances. 1-19	
809	Training a convolutional neural network to conserve mass in data assimilation. <b>2021</b> , 28, 111-119	7
808	Estimating Watershed Subsurface Permeability From Stream Discharge Data Using Deep Neural Networks. <b>2021</b> , 9,	2
807	Initialization of WRF Model Simulations With Sentinel-1 Wind Speed for Severe Weather Events. <b>2021</b> , 8,	2
806	Inference of Rock Flow and Mechanical Properties from Injection-Induced Microseismic Events During Geologic CO2 Storage. <b>2021</b> , 105, 103206	4
805	Control theory-based data assimilation for hydraulic models as a decision support tool for hydropower systems: sequential, multi-metric tuning of the controllers. <b>2021</b> , 23, 500-516	
804	Assimilation of lidar planetary boundary layer height observations. <b>2021</b> , 14, 1099-1110	2
803	On the Choice of Metric to Calibrate Time-Invariant Ensemble Kalman Filter Hyper-Parameters for Discharge Data Assimilation and Its Impact on Discharge Forecast Modelling. <b>2021</b> , 8, 36	0
802	History Matching of Naturally Fractured Reservoirs Using a Deep Sparse Autoencoder. <b>2021</b> , 26, 1700-1721	52
801	Review of assimilating GRACE terrestrial water storage data into hydrological models: Advances, challenges and opportunities. <b>2021</b> , 213, 103487	10

800	Data-Driven Ensemble Modeling of Equatorial Ionospheric Electrodynamics: A Case Study During a Minor Storm Period Under Solar Minimum Conditions. <b>2021</b> , 126, e2020JA028539	3
799	Subspace Ensemble Randomized Maximum Likelihood with Local Analysis for Time-Lapse-Seismic-Data Assimilation. <b>2021</b> , 26, 1011-1031	0
798	A 6-year-long (2013–2018) high-resolution air quality reanalysis dataset in China based on the assimilation of surface observations from CNEMC. <b>2021</b> , 13, 529-570	29
797	Data Assimilation of Satellite-Based Soil Moisture into a Distributed Hydrological Model for Streamflow Predictions. <b>2021</b> , 8, 52	6
796	Regional winter wheat yield estimation based on the WOFOST model and a novel VW-4DEnSRF assimilation algorithm. <b>2021</b> , 255, 112276	7
795	A data assimilation algorithm for predicting rain. <b>2021</b> , 147, 1949-1963	3
794	Multi-Resolution Filters for Massive Spatio-Temporal Data. 1-16	3
793	Machine learning based bias correction for numerical chemical transport models. <b>2021</b> , 248, 118022	2
792	Assimilation of Dynamic Combined Finite Discrete Element Methods Using the Ensemble Kalman Filter. <b>2021</b> , 11, 2898	0
791	Role of remotely sensed leaf area index assimilation in eco-hydrologic processes in different ecosystems over East Asia with Community Land Model version 4.5 [Biogeochemistry. <b>2021</b> , 594, 125957	4
790	Empirical determination of the covariance of forecast errors: An empirical justification and reformulation of hybrid covariance models. <b>2021</b> , 147, 2033-2052	0
789	Particle filters for data assimilation based on reduced-order data models. <b>2021</b> , 147, 1892-1907	3
788	Penalized ensemble Kalman filters for high dimensional non-linear systems. <b>2021</b> , 16, e0248046	2
787	Contaminant Spill in a Sandbox with Non-Gaussian Conductivities: Simultaneous Identification by the Restart Normal-Score Ensemble Kalman Filter. <b>2021</b> , 53, 1587-1615	1
786	A Combined Neural Network- and Physics-Based Approach for Modeling Plasmasphere Dynamics. <b>2021</b> , 126, e2020JA028077	4
785	Spatio-Temporal Inversion Using the Selection Kalman Model. 7,	
784	Radar reflectivity and radial velocity assimilation in a hybrid ETKF-3DVAR system for prediction of a heavy convective rainfall. <b>2021</b> , 147, 2264-2280	0
783	Prediction of river water temperature using machine learning algorithms: a tropical river system of India. <b>2021</b> , 23, 605-626	1

782	State estimation in turbulent channel flow from limited observations. <b>2021</b> , 917,	1
781	Non-Gaussian Parameter Inference for Hydrogeological Models Using Stein Variational Gradient Descent. <b>2021</b> , 57, e2020WR029339	2
780	Quantitative three-dimensional phase-field modeling of dendritic solidification coupled with local ensemble transform Kalman filter. <b>2021</b> , 190, 110296	4
779	Modified Ensemble Kalman filter for reservoir parameter and state estimation in the presence of model uncertainty. <b>2021</b> , 199, 108323	2
778	Data assimilation with multiple types of observation boreholes via the ensemble Kalman filter embedded within stochastic moment equations. <b>2021</b> , 25, 1689-1709	1
777	Sequential Data Assimilation for Streamflow Forecasting: Assessing the Sensitivity to Uncertainties and Updated Variables of a Conceptual Hydrological Model at Basin Scale. <b>2021</b> , 57,	6
776	Kernel-based prediction of non-Markovian time series. <b>2021</b> , 418, 132829	5
775	Fast data assimilation (FDA): Data assimilation by machine learning for faster optimize model state. <b>2021</b> , 51, 101323	1
774	Ensemble-Based Electrical Resistivity Tomography with Data and Model Space Compression. <b>2021</b> , 178, 1781	0
773	A nonlinear least squares four-dimensional variational data assimilation system for PM2.5 forecasts (NASM): Description and preliminary evaluation. <b>2021</b> , 12, 122-132	1
772	Comparing Assimilation of Synthetic Soil Moisture Versus C-Band Backscatter for Hyper-Resolution Land Surface Modeling. <b>2021</b> , 57, e2020WR028921	0
771	Unsaturated zone model complexity for the assimilation of evapotranspiration rates in groundwater modelling. <b>2021</b> , 25, 2261-2277	2
770	Bayesian inference of spatially varying parameters in soil constitutive models by using deformation observation data. <b>2021</b> , 45, 1647-1663	7
769	Adaptive ensemble optimal interpolation for efficient data assimilation in the red sea. <b>2021</b> , 51, 101317	
768	A particle flow filter for high-dimensional system applications. <b>2021</b> , 147, 2352-2374	2
767	Effect of the Assimilation Frequency of Radar Reflectivity on Rain Storm Prediction by Using WRF-3DVAR. <b>2021</b> , 13, 2103	3
766	Conceptual Design of Extreme Sea-Level Early Warning Systems Based on Uncertainty Quantification and Engineering Optimization Methods. <b>2021</b> , 8,	2
765	The Impact of Solar Activity on Forecasting the Upper Atmosphere via Assimilation of Electron Density Data. <b>2021</b> , 19, e2020SW002660	3



764	Phase-resolved ocean wave forecast with ensemble-based data assimilation. <b>2021</b> , 918,	1
763	Constrained iterative ensemble smoother for multi solution search assisted history matching. <b>2021</b> , 25, 1593-1604	1
762	Ensemble Kalman filter for vortex models of disturbed aerodynamic flows. <b>2021</b> , 6,	5
761	Assimilating X- and S-Band Radar Data for a Heavy Precipitation Event in Italy. <b>2021</b> , 13, 1727	1
760	Assimilation of Satellite Soil Moisture Products for River Flow Prediction: An Extensive Experiment in Over 700 Catchments Throughout Europe. <b>2021</b> , 57, e2021WR029643	1
759	Optimization for the Assessment of Spudcan Peak Resistance in ClaySandClay Deposits. <b>2021</b> , 9, 689	0
758	Data assimilation of flow-acoustic resonance. <b>2021</b> , 149, 4134	1
757	Technical Note: Sequential ensemble data assimilation in convergent and divergent systems. <b>2021</b> , 25, 3319-3329	1
756	Dynamics of Tidal and Residual Currents Based on Coastal Acoustic Tomography Assimilated Data Obtained in Jiaozhou Bay, China. <b>2021</b> , 126, e2020JC017003	2
755	A two-stage variable-separation Kalman filter for data assimilation. <b>2021</b> , 434, 110244	
754	Effects of observational data shortage on accuracy of global solar activity forecast. <b>2021</b> , 505, 6085-6102	0
753	Seasonal prediction skills in the CAMS-CSM climate forecast system. 1	1
752	A Graph Clustering Approach to Localization for Adaptive Covariance Tuning in Data Assimilation Based on State-Observation Mapping. <b>2021</b> , 1-30	4
751	Intercomparison of the Performance of Four Data Assimilation Schemes in a Limited-Area Model on Forecasts of an Extreme Rainfall Event Over the Uttarakhand in Himalayas. <b>2021</b> , 8, e2020EA001461	0
750	Changes in Power Plant NOx Emissions over Northwest Greece Using a Data Assimilation Technique. <b>2021</b> , 12, 900	2
749	A robust surrogate data assimilation approach to real-time forecasting using polynomial chaos expansion. <b>2021</b> , 598, 126367	1
748	Real-time reservoir flood control operation enhanced by data assimilation. <b>2021</b> , 598, 126426	4
747	Characterizing viscoelastic materials via ensemble-based data assimilation of bubble collapse observations. <b>2021</b> , 152,	3

746	Evaluating the Forecast Impact of Assimilating ATOVS Radiance With the Regional System of Multigrid NLS-4DVar Data Assimilation for Numerical Weather Prediction (SNAP). <b>2021</b> , 13, e2020MS002407	0
745	Bridging observations, theory and numerical simulation of the ocean using machine learning. <b>2021</b> , 16, 073008	6
744	Contaminant-Source Detection in a Water Distribution System Using the Ensemble Kalman Filter. <b>2021</b> , 147,	1
743	Digital Twin Concepts with Uncertainty for Nuclear Power Applications. <b>2021</b> , 14, 4235	10
742	Flexible and Efficient Inference with Particles for the Variational Gaussian Approximation. <b>2021</b> , 23,	1
741	Ensemble Riemannian data assimilation over the Wasserstein space. <b>2021</b> , 28, 295-309	1
740	Estimation of solid-state sintering and material parameters using phase-field modeling and ensemble four-dimensional variational method. <b>2021</b> , 29, 065012	2
739	The Application of Ensemble Wave Forcing to Quantify Uncertainty of Shoreline Change Predictions. <b>2021</b> , 126, e2019JF005506	8
738	High-resolution modeling and prediction of urban floods using WRF-Hydro and data assimilation. <b>2021</b> , 598, 126236	5
737	Ensemble Transform Kalman Incremental Smoother and Its Application to Data Assimilation and Prediction. <b>2021</b> , 7,	
736	Ensemble smoother with multiple data assimilation to simultaneously estimate the source location and the release history of a contaminant spill in an aquifer. <b>2021</b> , 598, 126215	4
735	Identification of factors impacting on the transmission and mortality of COVID-19. 1-24	
734	The Maximum Likelihood Ensemble Filter with State Space Localization. <b>2021</b> ,	1
733	Improving the Analyses and Forecasts of a Tropical Squall Line Using Upper Tropospheric Infrared Satellite Observations. 1	2
732	Optimal Transportation Methods in Nonlinear Filtering. <b>2021</b> , 41, 34-49	0
731	Revisiting Online and Offline Data Assimilation Comparison for Paleoclimate Reconstruction: An Idealized OSSE Study. <b>2021</b> , 126, e2020JD034214	1
730	The Impact of Perturbing Eddy Diffusion and Upper Boundary on the Ionosphere EnKF Assimilation System. <b>2021</b> , 126, e2021JA029366	1
729	An application of the ensemble Kalman filter in epidemiological modelling. <b>2021</b> , 16, e0256227	5

728	DART-PFLOTRAN: An ensemble-based data assimilation system for estimating subsurface flow and transport model parameters. <b>2021</b> , 142, 105074	0
727	Soil Moisture Estimates in a Grass Field Using Sentinel-1 Radar Data and an Assimilation Approach. <b>2021</b> , 13, 3293	1
726	CICE-LETKF Ensemble Analysis System with Application to Arctic Sea Ice Initialization. <b>2021</b> , 9, 920	
725	Bibliography. <b>2021</b> , 331-400	
724	Wake Vortex Detection and Tracking for Aircraft Formation Flight. 1-19	0
723	Comparative Analysis of Two Approaches for Correcting the Systematic Ocean Temperature Bias of CAS-ESM-C. <b>2021</b> , 9, 925	0
722	Reconstructing the Dynamics of the Outer Electron Radiation Belt by Means of the Standard and Ensemble Kalman Filter With the VERB-3D Code. <b>2021</b> , 19, e2020SW002672	1
721	Impact of Soil Moisture Data Assimilation on Analysis and Medium-Range Forecasts in an Operational Global Data Assimilation and Prediction System. <b>2021</b> , 12, 1089	1
720	A Probabilistic Framework for Agricultural Drought Forecasting Using the Ensemble Data Assimilation and Bayesian Multivariate Modeling. <b>2021</b> , 147-164	0
719	A testbed for geomagnetic data assimilation. <b>2021</b> , 227, 2180-2203	1
718	Analyzing the effects of observation function selection in ensemble Kalman filtering for epidemic models. <b>2021</b> , 339, 108655	0
717	Comparing partial and continuously cycling ensemble Kalman filter data assimilation systems for convection-allowing ensemble forecast initialization. <b>2021</b> ,	1
716	Exploiting Natural Nonconservative Geochemical Data to Obtain Reservoir Information. <b>2021</b> ,	0
715	Theory-guided full convolutional neural network: An efficient surrogate model for inverse problems in subsurface contaminant transport. <b>2021</b> , 157, 104051	2
714	Potential Impacts of Lightning Flash Observations on Numerical Weather Prediction With Explicit Lightning Processes. <b>2021</b> , 126, e2021JD034611	0
713	Calibration and Uncertainty Quantification of Convective Parameters in an Idealized GCM. <b>2021</b> , 13, e2020MS002454	
712	Grass modelling in data-limited areas by incorporating MODIS data products. <b>2021</b> , 271, 108250	2
711	Kalman Filter: Historical Overview and Review of Its Use in Robotics 60 Years after Its Creation. <b>2021</b> , 2021, 1-21	12

710	Estimating Terrestrial Snow Mass via Multi-Sensor Assimilation of Synthetic AMSR-E Brightness Temperature Spectral Differences and Synthetic GRACE Terrestrial Water Storage Retrievals. <b>2021</b> , 57, e2021WR029880	
709	Bagged Filters for Partially Observed Interacting Systems. 1-33	0
708	Bayesian Data Assimilation of Temperature Dependence of Solid-Liquid Interfacial Properties of Nickel. <b>2021</b> , 11,	2
707	Evaluation of Assimilation in the MASNUM Wave Model Based on Jason-3 and CFOSAT. <b>2021</b> , 13, 3833	1
706	Targeted covariance inflation for 3D-volume radar reflectivity assimilation with the LETKF.	1
705	Hydrological ensemble forecasting using a multi-model framework. <b>2021</b> , 600, 126537	4
704	An Integrated Ensemble-Based Uncertainty Centric Approach to Address Multi-Disciplinary Reservoir Challenges While Accelerating Subsurface Modeling Process in an Onshore Field, Abu Dhabi, UAE. <b>2021</b> ,	0
703	A non-Gaussian Bayesian filter for sequential data assimilation with non-intrusive polynomial chaos expansion.	1
702	Assimilation of X-Band Phased-Array Radar Data With EnKF for the Analysis and Warning Forecast of a Tornadoic Storm. <b>2021</b> , 13, e2020MS002441	
701	Investigating the pilot point ensemble Kalman filter for geostatistical inversion and data assimilation. <b>2021</b> , 155, 104010	4
700	Integrating deep learning-based data assimilation and hydrogeophysical data for improved monitoring of DNAPL source zones during remediation. <b>2021</b> , 601, 126655	4
699	Pipedream: An interactive digital twin model for natural and urban drainage systems. <b>2021</b> , 144, 105120	8
698	Modeling the impact of spatiotemporal vegetation dynamics on groundwater recharge. <b>2021</b> , 601, 126584	2
697	Machine learning techniques to construct patched analog ensembles for data assimilation. <b>2021</b> , 443, 110532	1
696	Dynamic network analysis of North American financial institutions. <b>2021</b> , 42, 101921	3
695	On the use of different constitutive models in data assimilation for slope stability. <b>2021</b> , 138, 104332	3
694	Production scheduling in industrial mining complexes with incoming new information using tree search and deep reinforcement learning. <b>2021</b> , 110, 107644	3
693	A multigrid/ensemble Kalman filter strategy for assimilation of unsteady flows. <b>2021</b> , 443, 110481	1

692	Reducing the error in estimates of the Sunda Strait currents by blending HF radar currents with model results. <b>2021</b> , 228, 104512	0
691	Quantifying the observational requirements of a space-borne LiDAR snow mission. <b>2021</b> , 601, 126709	1
690	Assimilation of GPS-tracked drifter data to improve the Eulerian velocity fields in an estuary. <b>2021</b> , 262, 107575	
689	A gradient-enhanced sequential nonparametric data assimilation framework for soil moisture flow. <b>2021</b> , 603, 126857	0
688	Machine learning assisted history matching for a deepwater lobe system. <b>2021</b> , 207, 109086	5
687	Methodology for data assimilation in reservoir and production system to improve short- and medium-term forecast. <b>2021</b> , 207, 109083	
686	An automated data-driven pressure transient analysis of water-drive gas reservoir through the coupled machine learning and ensemble Kalman filter method. <b>2022</b> , 208, 109492	4
685	A residual-driven adaptive Gaussian mixture approximation for Bayesian inverse problems. <b>2022</b> , 399, 113707	
684	Thermal state estimation based on Assisted Ensemble Kalman Filter. <b>2021</b> , 87, 21-00010-21-00010	
683	Sequential Solution for General State-Space Model. <b>2021</b> , 219-275	
682	Robust data assimilation with noise: Applications to cardiac dynamics. <b>2021</b> , 31, 013118	5
681	Quantification of Mismatch Error in Randomly Switching Linear State-Space Models. <b>2021</b> , 1-1	1
680	Monitoring and Tracking the Evolution of a Viral Epidemic Through Nonlinear Kalman Filtering: Application to the Covid-19 Case. <b>2021</b> , PP,	2
679	Smurf: System for Modelling with Uncertainty Reduction, and Forecasting. <b>2021</b> , 9,	
678	A Computationally Efficient Ensemble Filtering Scheme for Quantitative Volcanic Ash Forecasts. <b>2021</b> , 126, e2020JD033094	4
677	Sample Regenerating Particle Filter Combined With Unequal Weight Ensemble Kalman Filter for Nonlinear Systems. <b>2021</b> , 9, 109612-109623	
676	Space-time autoregressive estimation and prediction with missing data based on Kalman filtering. <b>2020</b> , 31, e2627	1
675	Estimating model error covariances using particle filters. <b>2018</b> , 144, 1310-1320	7

674	Ocean Data Assimilation Using Sequential Methods Based on the Kalman Filter. <b>2006</b> , 271-316	15
673	Complementarity of Measurements and Models in Reproducing Earth's Radiation Belt Dynamics. <b>2007</b> , 219-229	1
672	Ensemble Synoptic Analysis. <b>2008</b> , 147-161	18
671	An Introduction to Data Assimilation and Predictability in Geomagnetism. <b>2010</b> , 247-291	3
670	The Assimilation of Radar Data for Weather Prediction. <b>2003</b> , 175-198	4
669	Bayesian Inverse Problems and Kalman Filters. <b>2014</b> , 133-159	3
668	Nonlinear Data Assimilation for high-dimensional systems. <b>2015</b> , 1-73	9
667	Assimilating data into scientific models: An optimal coupling perspective. <b>2015</b> , 75-118	8
666	Specification of the Ionosphere-Thermosphere Using the Ensemble Kalman Filter. <b>2015</b> , 274-283	10
665	iSPUW: A Vision for Integrated Sensing and Prediction of Urban Water for Sustainable Cities. <b>2015</b> , 68-78	2
664	Surface Data Assimilation and Near-Surface Weather Prediction over Complex Terrain. <b>2017</b> , 219-240	3
663	Soil Moisture Data Assimilation. <b>2017</b> , 195-217	6
662	Localization in High-Dimensional Monte Carlo Filtering. <b>2017</b> , 79-89	2
661	Implementation of the Ensemble Kalman Filter into a Northwest Pacific Ocean Circulation Model. <b>2009</b> , 341-351	3
660	Assimilation of Soil Moisture and Temperature Data into Land Surface Models: A Survey. <b>2009</b> , 429-448	3
659	Assimilation of a Satellite-Based SoilMoisture Product into a Two-Layer Water Balance Model for a Global Crop Production Decision Support System. <b>2009</b> , 449-463	4
658	Theoretical and Practical Issues of Ensemble Data Assimilation in Weather and Climate. <b>2009</b> , 67-84	8
657	Information Measures in Ensemble Data Assimilation. <b>2009</b> , 85-95	2

656	Ensemble Kalman Filter: Current Status and Potential. <b>2010</b> , 69-92	12
655	Error Statistics in Data Assimilation: Estimation and Modelling. <b>2010</b> , 93-112	9
654	General Review of Rainfall-Runoff Modeling: Model Calibration, Data Assimilation, and Uncertainty Analysis. <b>2009</b> , 1-24	73
653	An Ensemble Kalman-Particle Predictor-Corrector Filter for Non-Gaussian Data Assimilation. <b>2009</b> , 470-478	13
652	Data Assimilation Algorithms for Numerical Models. <b>2009</b> , 107-142	1
651	Mathematics in Atmospheric Sciences: An Overview. <b>2009</b> , 22-33	0
650	Modeling and Prediction of Solar Cycles Using Data Assimilation Methods. <b>2011</b> , 121-137	4
649	Ensemble Methods for Meteorological Predictions. <b>2018</b> , 1-52	5
648	Uncertainties in Weather Forecast Reasons and Handling. <b>2011</b> , 11-33	1
647	Framing Uncertainties in Flood Forecasting with Ensembles. <b>2011</b> , 53-76	2
646	Robust Structural Health Monitoring Using a Polynomial Chaos Based Sequential Data Assimilation Technique. <b>2013</b> , 203-213	2
645	Operational Dust Prediction. <b>2014</b> , 223-265	21
644	Coupled data assimilation and parameter estimation in coupled ocean-atmosphere models: a review. <b>2020</b> , 54, 5127-5144	22
643	Data assimilation of uncalibrated soil moisture measurements from frequency-domain reflectometry. <b>2020</b> , 374, 114432	3
642	Examining dynamic interactions among experimental factors influencing hydrologic data assimilation with the ensemble Kalman filter. <b>2017</b> , 554, 743-757	11
641	Design and optimization of navigation and guidance techniques for Mars pinpoint landing: Review and prospect. <b>2017</b> , 94, 82-94	35
640	Atmospheric Modeling, Data Assimilation and Predictability. <b>2002</b> ,	681
639	Implementation of a Modified Adaptive Covariance Inflation Scheme for the Big Data-Driven NLS-4DVar Algorithm. <b>2019</b> , 6, 2593-2604	2

638	Dynamic state estimation of generators using spherical simplex unscented transform-based unbiased minimum variance filter. <b>2020</b> , 14, 2997-3005	3
637	North Atlantic Ocean OSSE system: Evaluation of operational ocean observing system components and supplemental seasonal observations for potentially improving tropical cyclone prediction in coupled systems. <b>2017</b> , 10, 154-175	14
636	Continuous limits for constrained ensemble Kalman filter. <b>2020</b> , 36, 075006	5
635	Data-assimilated low-order vortex modeling of separated flows. <b>2018</b> , 3,	21
634	Probing the limits of predictability: data assimilation of chaotic dynamics in complex food webs. <b>2018</b> , 21, 93-103	26
633	Wavelet approximation of error covariance propagation in data assimilation.	6
632	On an adaptive filter for altimetric data assimilation and its application to a primitive equation model, MICOM.	5
631	A comparison of error subspace Kalman filters.	45
630	Use of Channel Information Update and Discrete Cosine Transform in Ensemble Smoother for Channel Reservoir Characterization. <b>2020</b> , 142,	2
629	Stochastic method for turbulence estimation from Doppler lidar measurements. <b>2017</b> , 11, 1	3
628	Ensemble Forecasts and the Properties of Flow-Dependent Analysis-Error Covariance Singular Vectors. <b>2003</b> , 131, 1741-1758	40
627	Ensemble Generation for Models of Multimodal Systems. <b>2002</b> , 130, 2313-2333	17
626	Accounting for Model Error in Ensemble-Based State Estimation and Forecasting. <b>2002</b> , 130, 2373-2391	36
625	Linear Evolution of Error Covariances in a Quasigeostrophic Model. <b>2003</b> , 131, 189-205	38
624	Comparison of Methods Accounting for Subgrid-Scale Model Error in Convective-Scale Data Assimilation. <b>2020</b> , 148, 2457-2477	10
623	A Multi-Time-Scale Four-Dimensional Variational Data Assimilation Scheme and Its Application to Simulated Radial Velocity and Reflectivity Data. <b>2020</b> , 148, 2063-2085	3
622	Assessing the Ensemble Predictability of Precipitation Forecasts for the January 2015 and 2016 East Coast Winter Storms. <b>2017</b> , 32, 1057-1078	20
621	Predictions of the geomagnetic secular variation based on the ensemble sequential assimilation of geomagnetic field models by dynamo simulations. <b>2020</b> , 72,	6



620	Hydrologic Data Assimilation. <b>2005</b> ,	19
619	Data Assimilation. <b>2010</b> , 477-492	7
618	Data driven methods in hydrology. <b>2004</b> , 2015-2050	2
617	Identifying Functional Form of Time-Varying Hydrological Model Parameters under Changing Environment. <b>2018</b> , 07, 351-359	1
616	Particle filter for model updating and reliability estimation of existing structures. <b>2013</b> , 11, 103-122	1
615	A new data assimilation method for high-dimensional models. <b>2018</b> , 13, e0191714	4
614	Application of Carbon Tracking System based on Ensemble Kalman Filter on the Diagnosis of Carbon Cycle in Asia. <b>2012</b> , 22, 415-427	6
613	A Comparison of the Atmospheric CO <sub>2</sub> Concentrations Obtained by an Inverse Modeling System and Passenger Aircraft Based Measurement. <b>2016</b> , 26, 387-400	2
612	Sensitivity analysis on Lake Taihu data assimilation scheme of chlorophyll-a concentration. <b>2015</b> , 27, 163-174	1
611	Ensemble Kalman filter based data assimilation in the Delft3D-BLOOM lake eutrophication model. <b>2017</b> , 29, 1070-1083	1
610	Real-time updating of XAJ model by using Unscented Kalman Filter. <b>2018</b> , 30, 488-496	1
609	Impact of Altika Sea Level Anomaly Data on a Variational Assimilation System. <b>2020</b> , 89, 46	1
608	An Iterative Ensemble Kalman Filter for Data Assimilation. <b>2007</b> ,	29
607	Critical Evaluation of the Ensemble Kalman Filter on History Matching of Geologic Facies. <b>2005</b> ,	17
606	Introduction to the Special Section in Vadose Zone Journal: Parameter Identification and Uncertainty Assessment in the Unsaturated Zone. <b>2006</b> , 5, 915-916	2
605	Analyzing Risk of Stock Collapse in a Fishery Under Stochastic Profit Maximization.	1
604	How Overconfident are Current Projections of Anthropogenic Carbon Dioxide Emissions?.	47
603	Impact of Dense and Frequent Surface Observations on 1-Minute-Update Severe Rainstorm Prediction: A Simulation Study. <b>2019</b> , 97, 253-273	6

602	Development of Prediction Model Using Ensemble Forecast Assimilation in Nonlinear Dynamical System. <b>2004</b> , 82, 167-178	4
601	Recent Progress of Data Assimilation Methods in Meteorology. <b>2007</b> , 85B, 331-361	31
600	Atmospheric Predictability. <b>2007</b> , 85B, 77-102	26
599	Comparison of the Extended Kalman Filter and the Ensemble Kalman Filter Using the Barotropic General Circulation Model. <b>2009</b> , 87, 347-359	2
598	Applying the Local Ensemble Transform Kalman Filter to the Nonhydrostatic Icosahedral Atmospheric Model (NICAM). <b>2009</b> , 5, 121-124	6
597	Parameter Sensitivities of the Dual-Localization Approach in the Local Ensemble Transform Kalman Filter. <b>2013</b> , 9, 174-178	8
596	Multi-Year Analysis Using the NICAM-LETKF Data Assimilation System. <b>2019</b> , 15, 41-46	6
595	An Enkf-Based Scheme for Snow Multivariable Data Assimilation at an Alpine Site. <b>2019</b> , 67, 4-19	7
594	FlightGround Integration: The Future of Operability. <b>2015</b> , 77-103	0
593	Advancing Navigation, Timing, and Science with the Deep-Space Atomic Clock. <b>2015</b> , 105-138	3
592	Highlights of the European Ground SystemsCommon Core Initiative. <b>2015</b> , 219-241	0
591	The Incremental Planning SystemGSOC's Next-Generation Mission Planning Framework. <b>2015</b> , 285-307	1
590	A Predictive Approach to Failure Estimation and Identification for Space Systems Operations. <b>2015</b> , 309-331	1
589	Ready for Secure Software: Secure Software Engineering for Space Missions. <b>2015</b> , 333-351	1
588	Open-Source Software for Mission OperationsTechnology, Licensing, and Community. <b>2015</b> , 489-502	0
587	Characterization of the Measurement Error in Time-Lapse Seismic Data and Production Data with an EM Algorithm. <b>2007</b> , 62, 181-193	9
586	Combination of measurements and model predictions after a release of radionuclides. <b>2004</b> , 69, 243-247	1
585	Application of 3-D ensemble variational data assimilation to a Baltic Sea reanalysis 1989-2013. <b>2016</b> , 68, 24220	18

584	Computing travel times from filtered traffic states. <b>2014</b> , 7, 557-578	4
583	Stabilized BFGS approximate Kalman filter. <b>2015</b> , 9, 1003-1024	2
582	Implementation of the Ensemble Kalman Filter to a Double Gyre Ocean and Sensitivity Test using Twin Experiments. <b>2008</b> , 30, 129-140	2
581	Reservoir Multiscale Data Assimilation Using the Ensemble Kalman Filter. <b>2011</b> , 02, 165-180	2
580	Tracing the trajectory of pelagic Sargassum using satellite monitoring and Lagrangian transport simulations in the East China Sea and Yellow Sea. <b>2019</b> , 34, 315-326	4
579	Ozone data assimilation with GEOS-Chem: a comparison between 3-D-Var, 4-D-Var, and suboptimal Kalman filter approaches.	9
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569	Data assimilation of CALIPSO aerosol observations.	3
568	Analysis of different propagation models for the estimation of the topside ionosphere and plasmasphere with an ensemble Kalman filter. <b>2020</b> , 38, 1171-1189	2
567	Efficient ensemble data assimilation for coupled models with the Parallel Data Assimilation Framework: example of AWI-CM (AWI-CM-PDAF 1.0). <b>2020</b> , 13, 4305-4321	8

566	Streamflow data assimilation for soil moisture analysis.	1
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562	Kalman filters for assimilating near-surface observations into the Richards equation [Part 2: A dual filter approach for simultaneous retrieval of states and parameters. <b>2014</b> , 18, 2521-2541	19
561	The suitability of remotely sensed soil moisture for improving operational flood forecasting.	4
560	Resolving structural errors in a spatially distributed hydrologic model.	1
559	Simultaneous estimation of model state variables and observation and forecast biases using a two-stage hybrid Kalman filter.	2
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548	An integrated uncertainty and ensemble-based data assimilation approach for improved operational streamflow predictions.	1
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545	Complete synchronization of chaotic atmospheric models by connecting only a subset of state space. <b>2012</b> , 19, 611-621	8
544	The local ensemble transform Kalman filter and the running-in-place algorithm applied to a global ocean general circulation model. <b>2013</b> , 20, 1031-1046	17
543	Data assimilation of two-dimensional geophysical flows with a Variational Ensemble Kalman Filter.	1
542	A local particle filter for high dimensional geophysical systems.	9
541	Assessment of an ensemble system that assimilates Jason-1/Envisat altimeter data in a probabilistic model of the North Atlantic ocean circulation.	2
540	Application of the Gaussian anamorphosis to assimilation in a 3-D coupled physical-ecosystem model of the North Atlantic with the EnKF: a twin experiment.	5
539	Estimation of friction parameters in gravity currents by data assimilation in a model hierarchy.	1
538	Obstacles and benefits of the implementation of a reduced rank smoother with a high resolution model of the Atlantic ocean.	2
537	TOPAZ4: an ocean-sea ice data assimilation system for the North Atlantic and Arctic.	7
536	Assimilating GlobColour ocean colour data into a pre-operational physical-biogeochemical model.	5
535	Investigation and experiments of wavelet thresholding in ensemble-based background error variance. <b>2017</b> , 66, 020505	1
534	Representing Microphysical Uncertainty in Convective-Scale Data Assimilation Using Additive Noise. <b>2021</b> , 13,	1
533	The Improved Localized Equivalent-Weights Particle Filter with Statistical Observation in an Intermediate Coupled Model. <b>2021</b> , 9, 1153	
532	From limited observations to the state of turbulence: Fundamental difficulties of flow reconstruction. <b>2021</b> , 6,	0
531	Numerical Comparison Between ES-MDA and Gradient-Based Optimization for History Matching of Reduced Reservoir Models. <b>2021</b> ,	

- 530 Estimation of levee breach discharge hydrographs: comparison of inverse approaches. 0
- 529 Multivariate localization functions for strongly coupled data assimilation in the bivariate Lorenz 96 system. **2021**, 28, 565-583 0
- 528 An Investigation of Adaptive Radius for the Covariance Localization in Ensemble Data Assimilation. **2021**, 9, 1156 0
- 527 The Impact of Assimilating Ionosphere and Thermosphere Observations on Neutral Temperature Improvement: Observing System Simulation Experiments Using EnKF. **2021**, 19, e2021SW002844 1
- 526 Ensemble Kalman filtering with coloured observation noise. **2021**, 147, 4408
- 525 A study of capturing Atlantic meridional overturning circulation (AMOC) regime transition through observation-constrained model parameters. **2021**, 28, 481-500 1
- 524 Leaf 13 C data constrain the uncertainty of the carbon dynamics of temperate forest ecosystems. **2021**, 12,
- 523 Spatiotemporal forecasting in earth system science: Methods, uncertainties, predictability and future directions. **2021**, 222, 103828 6
- 522 Parallelization of a large scale Kalman filter: comparison between mode and domain decomposition. **2002**, 323-330 1
- 521 Statistics and the Environmental Sciences: Approaches to Model Combination. **2002**, 207-226
- 520 Assimilation of Land Surface Data. **2003**, 331-343
- 519 Kalman Filter Analysis of Boundary Layer Ozone in Europe with a Chemistry Transport Model. **2004**, 395-405
- 518 An Eddy Diffusivity Derivation for the Non-Isotropic Convective Decaying Turbulence in the Residual Layer. **2004**, 407-415
- 517 Application of seeding and automatic differentiation in a large scale ocean circulation model. **2005**, 26, 121-134
- 516 Modeling Microphysical Signatures of Extreme Events in the Western Mediterranean to Provide a Basis for Diagnosing Precipitation from Space. **2007**, 535-547 1
- 515 Evaluating model performance of an ensemble-based chemical data assimilation system during INTEX-B field mission.
- 514 A data assimilation method of the Ensemble Kalman Filter for use in severe dust storm forecasts over China.
- 513 Information Fusion using the Kalman Filter based on Karhunen-Loève Decomposition. **2008**, 43-68

- 512 Estimating surface CO<sub>2</sub> fluxes from space-borne CO<sub>2</sub> dry air mole fraction observations using an ensemble Kalman Filter. 1
- 511 Sequential Assimilation of Tracer Test Data by Ensemble Kalman Filter for Fracture Identification. **2009**, 52, 275-282
- 510 Implementation and testing of a simple data assimilation algorithm in the regional air pollution forecast model, DEOM.
- 509 Controllability of mixing errors in a coupled physical biogeochemical model of the North Atlantic: a nonlinear study using anamorphosis. 1
- 508 Automatic generation of large ensembles for air quality forecasting using the Polyphemus system.
- 507 Stochastic Continuous Storage Function Model with Ensemble Kalman Filtering (I) : Model Development. **2009**, 42, 953-961 5
- 506 A Pseudo-dynamical Systems Approach to Inverse Problems. **2010**, 279-288
- 505 Sensitivity tests for an ensemble Kalman filter for aerosol assimilation.
- 504 Hydrological real-time modeling using remote sensing data.
- 503 Simultaneous estimation of land surface scheme states and parameters using the ensemble Kalman filter: idealized twin experiments.
- 502 Ensemble-Based Data Assimilation Methods. **2011**, 381-393 1
- 501 Risiko- und Notfallmanagement unter Unsicherheit - Teil 1. **2011**, 52, 28-32
- 500 Development of Real-Time River Flow Forecasting Model with Data Assimilation Technique. **2011**, 44, 199-208 2
- 499 Estimation of friction parameters in gravity currents by data assimilation in a model hierarchy. **2011**, 7, 245-255 1
- 498 Estimating geostatistical parameters and spatially-variable hydraulic conductivity within a catchment system using an ensemble smoother.
- 497 Sequential State Estimation. **2011**, 151-234 1
- 496 Streamflow Forecast Model on Nakdong River Basin. **2011**, 44, 853-861 2
- 495 Multiscale Weighted Ensemble Kalman Filter for Fluid Flow Estimation. **2012**, 749-760 0

- 494 Improved particle filter in data assimilation. **2012**, 61, 070501 3
- 493 Estimation of positive sum-to-one constrained zooplankton grazing preferences with the DEnKF: a twin experiment.
- 492 Validation of Real-Time River Flow Forecast Using AWS Rainfall Data. **2012**, 45, 607-616 2
- 491 A dual-pass data assimilation scheme for estimating turbulent fluxes with FY3A data.
- 490 References. 315-319
- 489 An assessment of climate state reconstructions obtained using particle filtering methods.
- 488 A new data assimilation method using complex-variable differentiation. **2013**, 62, 170504 2
- 487 Data Assimilation Methodology. 295-347
- 486 Data Assimilation. 273-293
- 485 A dual-pass data assimilation scheme for estimating surface energy fluxes with FY3A-VIRR land surface temperature.
- 484 Is inversion based high resolution characterization of spatially heterogeneous river bed hydraulic conductivity needed and possible?.
- 483 Stochastic Filtering In Structural Health Assessment: Some Perspectives and Recent Trends. **2013**, 113-147
- 482 Ensemble Data Assimilation for Tropospheric Ozone Analysis Within the CHIMERE Regional Chemistry Transport Model. **2014**, 227-231
- 481 Regional scale ozone data assimilation using an Ensemble Kalman Filter and the CHIMERE Chemical-Transport Model.
- 480 Development of Realtime Dam's Hydrologic Variables Prediction Model using Observed Data Assimilation and Reservoir Operation Techniques. **2013**, 46, 755-765
- 479 On the Accuracy of State Estimators for Constant and Time-Varying Parameter Estimation. **2013**,
- 478 History Matching of Channelized Reservoir Using Ensemble Smoother with Clustered Covariance. **2014**, 675-678
- 477 Estimation of Lateral Inflows Using Data Assimilation in the Context of Real-Time Flood Forecasting for the Marne Catchment in France. **2014**, 93-105 0



476 Improving streamflow predictions at ungauged locations with real-time updating: application of an EnKF-based state-parameter estimation strategy.

475 Sensor Network Data Assimilation in Soil Water Flow Modeling. **2014**, 239-260

474 Traitement du signal. **2014**, 347-386

473 Ensemble variational data assimilation method based on regional successive analysis scheme. **2014**, 63, 079201

472 Improving the ensemble transform Kalman filter using a second-order Taylor approximation of the nonlinear observation operator.

471 Dynamic Integration of DTS Data for Hydraulically Fractured Reservoir Characterization with the Ensemble Kalman Filter. **2014**,

470 Data assimilation experiments using the diffusive back and forth nudging for the NEMO ocean model.

469 Assimilation of surface NO<sub>2</sub> and O<sub>3</sub> observations into the SILAM chemistry transport model.

1

468 Application of Ensemble Kalman Filter in Forecasting the Electricity Grid Carbon Factor. **2015**, 3,

467 EFAL: EDRS Feeder Link from Antarctic LatitudesSystem Architecture and Operations Concept. **2015**, 163-184

466 Heterogeneous Wireless Mesh Network Technology Evaluation for Space Proximity and Surface Applications. **2015**, 1-22

465 File-Based OperationsArchitectures and the Euclid Example. **2015**, 243-262

464 Venus Express: Lessons from Eight Years of Science Operations. **2015**, 555-578

463 A new data assimilation method based on dual-number theory. **2015**, 64, 130502

462 Mission Planning FrameworkBuilding the Rosetta and Bepi-Colombo Planning Systems. **2015**, 263-284

461 Extending the Lifetime of ESA's X-Ray Observatory XMM-Newton. **2015**, 503-521

460 IMPACT: Integrated Modeling of Perturbations in Atmospheres for Conjunction Tracking. **2015**, 139-162

459 Scheduling as an Interoperability Service and Its Security Aspects. **2015**, 353-373

458 Index. **2015**, 603-638

457 Two Years of Operations of the ChemCam Instrument Onboard the Curiosity Rover. **2015**, 403-434

456 Adapting a Large-Scale Multimission Ground System for Low-Cost CubeSats. **2015**, 37-60

455 Table of Contents & Preface. **2015**, i-xxiv

454 Drag-Free Attitude and Orbit Control System Performance of ESA's GOCE Mission During Low Orbit Operations and Deorbiting. **2015**, 461-487

453 Human Health/Human Factors: Considerations in Translunar Space. **2015**, 435-460

452 Cluster II Mission After 14 Years Operations Beyond Its Design Limits. **2015**, 523-553

451 End-of-Life Operations of the Herschel Space Telescope. **2015**, 579-601

450 Space Weather Effects on Spacecraft: The Road Toward Operational Services. **2015**, 61-75

449 Supporting Materials. **2015**, 639-639

448 Security Standards for Space Terrestrial Internet Networks A Multidimensional Approach to Securing Shared Circuits. **2015**, 375-401

447 Development of a Two-Stage Mars Ascent Vehicle Using In Situ Propellant Production. **2015**, 23-36

446 Inverse modeling of black carbon emissions over China using ensemble data assimilation.

445 Comparing the Ensemble and Extended Kalman Filters for in situ soil moisture assimilation with contrasting soil conditions.

444 Limitations of ozone data assimilation with adjustment of NO<sub>x</sub> emissions: mixed effects on NO<sub>2</sub> forecast over Beijing and surrounding areas.

443 Data Assimilation for Geophysical Fluids: The Diffusive Back and Forth Nudging. **2016**, 139-174

442 Nonlinear Target Tracking Algorithm Based on Improved EnPF. **2016**, 5, 205-209

441 Fast and stable estimation of macroscopic parameters in particle systems by data assimilation. **2016**, 2016, 132-136

440 ??????&lt;bold&gt;: &lt;/bold&gt;??&lt;bold&gt;?&lt;/bold&gt;????? **2016**, 46, 1076-1086

439 Technical Program in full - Part II (RC 1 - VSP P1). **2016**,

438 Data assimilation for geophysical fluids. **2017**, 26, 767-793

437 Filtering in Dynamical Systems. **2017**, 5-45

436 Bibliography. **2017**, 923-939

435 Ensemble-Based Data Assimilation. **2017**, 783-821

434 Application of HY-2 Satellite SST Data in 4D Variational Assimilation Ocean Forecast Model. **2017**, 8, 15-26

433 Evaluation of Oil Spill Modeling in Ice Against In Situ Drifter Data from the Beaufort Sea. **2017**, 2017, 1523-1542

1

432 Implementation of Region-Based Covariance Localization Ensemble Kalman Filter in History Matching Workflow. **2017**, 10, 177-194

431 Upscaling Issues in Ecohydrological Observations. **2018**, 1-21

1

430 Introduction: Setting the Scene. **2018**, 1-14

429 Time Dependency. **2018**, 57-74

428 Numerical Weather Prediction Basics: Models, Numerical Methods, and Data Assimilation. **2018**, 1-31

2

427 Dynamic Space-Time Model for Syndromic Surveillance with Particle Filters and Dirichlet Process. **2018**, 139-152

426 DATA ASSIMILATION EXPERIMENTS USING A MIXED LAYER OCEAN MODEL FOR A BETTER ESTIMATION OF TYPHOON INTENSITY. **2018**, 74, I\_697-I\_702

1

425 Bayesian MCMC Method for the Solution of Data Assimilation. **2018**, 05, 108-117

424 APPLICATION OF ELASTIC SCATTERING AMPLITUDE TO PARTICLE FILTER FOR ESTIMATION OF FLAW SIZE AND LOCATION. **2018**, 74, I\_75-I\_84

423 Retrieval and uncertainty analysis of stochastic parameter in atmospheric boundary layer model. **2018**, 67, 199201

1

- 422 Ingesting microwave sounder radiances for improvement in track forecast of cyclone Vardah. **2018**, 12, 1 1
- 421 Systematic biases in disease forecasting - the role of behavior change.
- 420 Identification of geothermal reservoirs from ensemble-based Bayesian inversion of 3D MT data. **2018**,
- 419 Counter drones: tensor decomposition-based data fusion and systems design aspects. **2018**,
- 418 A New Approach for State Estimation. **2019**, 41-54
- 417 Application of Data Fusion for Uncertainty and Sensitivity Analysis of Water Quality in the Shenandoah River. **2019**, 1383-1410
- 416 Considering the impact of observation error correlation in ensemble square-root Kalman filter. 67, 0
- 415 An Experiment of Sequential Data Assimilation in Cantilevered Beam Model Based on the Ensemble Kalman Filter. **2019**, 18, 101-107
- 414 Influence of cyclic cylinder pressure variability in the numerical transfer path analysis of multi-body engine. 1-23
- 413 Data Assimilation for Resin Transfer Molding of Composite Materials. **2019**, 31, 302-305
- 412 Seismic history matching in the low-dimensional model and data space using deep convolutional auto-encoder. **2019**, 1
- 411 Sensitivity Analysis and Stochastic History Matching of Shale Gas Production Based on Embedded Discrete Fracture Model. **2020**, 422-438 0
- 410 An Ensemble Kalman Filtering Approach for Discrete-Time Inverse Optimal Control Problems. **2020**, 1-12
- 409 Application and Improvement of Ensemble Kalman Filter Method in Production Data Analysis. **2020**, 427-451
- 408 Evaluating Ensemble Kalman Filter Analyses of Severe Hailstorms on 8 May 2017 in Colorado: Effects of State Variable Updating and Multimoment Microphysics Schemes on State Variable Cross Covariances. **2020**, 148, 2365-2389 0
- 407 Strongly Coupled Data Assimilation Using Leading Averaged Coupled Covariance (LACC). Part III: Assimilation of Real World Reanalysis. **2020**, 148, 2351-2364 1
- 406 An iterative ensemble Kalman method for an inverse scattering problem in acoustics. **2020**, 34, 2050312 2
- 405 Data Assimilation by Artificial Neural Network using Conventional Observation for WRF Model. **2020**,

- 404 Simultaneous Estimation of Filtered and Smoothed State Probability Density Functions by Multiple Distribution Estimation. **2020**,
- 403 A Local Unscented Transform Kalman Filter for Nonlinear Systems. **2020**, 148, 3243-3266 1
- 402 An offline framework for high-dimensional ensemble Kalman filters to reduce the time to solution. **2020**, 13, 3607-3625
- 401 Assimilating Observations with Spatially Correlated Errors Using a Serial Ensemble Filter with a Multiscale Approach. **2020**, 148, 3397-3412 1
- 400 Saturation-based localization within EnKF approach for history matching in SAGD processes. **2020**, 276, 118056
- 399 Integrated Hybrid Data Assimilation for an Ensemble Kalman Filter. **2021**, 0
- 398 Data Assimilation by Stochastic Ensemble Kalman Filtering to Enhance Turbulent Cardiovascular Flow Data From Under-Resolved Observations. **2021**, 8, 742110 1
- 397 Integrated characterization of wormhole network by use of a modified pressure-gradient-based (PGB) sand failure criterion and ensemble-based history matching during CHOPS processes. **2021**, 208, 109777 2
- 396 Applications of Data Assimilation Methods on a Coupled Dual Porosity Stokes Model. **2020**, 72-85
- 395 Ensemble Model Predictive Control: Learning and Efficient Robust Control of Uncertain Dynamical Systems. **2020**, 0
- 394 Joint estimation of states and parameters of two-layer coastal aquifers based on ENKF. **2021**, 21, 1277-1290
- 393 Using Monte Carlo Particle Methods to Estimate and Quantify Uncertainty in Periodic Parameters (Research). **2020**, 213-226 1
- 392 Optimization Techniques for Adjoint Sensitivity Computation in Variational Data Assimilation. **2020**, 10, 675-686
- 391 Enhanced predictions of tides in the Persian Gulf through data assimilation. **2019**, 10, 85-95
- 390 Identifying trending model coefficients with an ensemble Kalman filter as demonstration on a force model for milling. **2020**, 53, 2292-2298 1
- 389 Macroscopic Equity Markets Model: Towards Predicting Financial Crashes.
- 388 Physics-Informed Data-Driven Prediction of Turbulent Reacting Flows with Lyapunov Analysis and Sequential Data Assimilation. **2020**, 177-196 0
- 387 Integrated Application Research of Reservoir Automation History Matching and Intelligent Optimization Technology of Development Plan. **2020**, 42, 29-40

- 386 Covariance localization in the ensemble transform Kalman filter based on an augmented ensemble. 68,
- 385 Simultaneous Parameter and State Estimation of Agro-Hydrological Systems. **2020**, 53, 11767-11772 1
- 384 Deep Markov Models for Data Assimilation in Chaotic Dynamical Systems. **2020**, 37-44
- 383 Application of an Ensemble Kalman Filter to A Semi-distributed Hydrological Flood Forecasting System in Alpine Catchments. **2020**, 319-334
- 382 Predicting Coastal Change in Scotland Across Decadal-Centennial Timescales using a Process-driven One-line Model. **2020**,
- 381 A Bayesian Adaptive Unscented Kalman Filter for Aircraft Parameter and Noise Estimation. **2021**, 2021, 1-11 3
- 380 Modelling the Background Error Covariance Matrix: Applicability Over the Maritime Continent. **2022**, 599-627 0
- 379 Estimation of Evapotranspiration Rates and Root Water Uptake Profiles From Soil Moisture Sensor Array Data. **2021**, 57, e2021WR030747 0
- 378 Theoretical and Practical Aspects of Strongly Coupled Aerosol-Atmosphere Data Assimilation. **2022**, 465-505
- 377 Stochastic Representations for Model Uncertainty in the Ensemble Data Assimilation System. **2022**, 143-153
- 376 Conditioning generative adversarial networks on nonlinear data for subsurface flow model calibration and uncertainty quantification. 1 0
- 375 The Arctic Ocean Observation Operator for 6.9 GHz (ARC3O) [Part 2: Development and evaluation. **2020**, 14, 2387-2407 5
- 374 Computationally Efficient Methods for Estimating Unknown Input Forces on Structural Systems. **2020**,
- 373 Comparison of Ensemble-Based Filters for a Simple Model of Ocean Thermohaline Circulation. **2009**, 293-306
- 372 Particle Filtering in Data Assimilation and Its Application to Estimation of Boundary Condition of Tsunami Simulation Model. **2009**, 353-366 1
- 371 Exploring Assimilation Order to Improve Assimilation with Serial Ensemble Kalman Filter. **2021**, 30, 2150068
- 370 Spatialization of Crop Growth Simulation Model Using Remote Sensing. **2021**, 153-199 1
- 369 A Comparison of Two Local Moment-Matching Nonlinear Filters: Local Particle Filter (LPF) and Local Nonlinear Ensemble Transform Filter (LNETF). **2020**, 148, 4377-4395 0

- 368 Application of Kalman Filter to Large-Scale Geospatial Data. **2020**, 10
- 367 Factors Influencing Ensemble SensitivityBased Targeted Observing Predictions at Convection-Allowing Resolutions. **2020**, 148, 4497-4517 1
- 366 Assimilation of Satellite-Derived Soil Moisture for Improved Forecasts of the Great Plains Low-Level Jet. **2020**, 148, 4607-4627 1
- 365 Assimilating shallow soil moisture observations into land models with a water budget constraint. **2020**, 24, 5187-5201 1
- 364 Exploring the benefits of a Hi-EnKF system to forecast an extreme weather event. The 9th October 2018 catastrophic flash flood in Mallorca. **2022**, 265, 105917 0
- 363 Understanding the key factors that influence soil moisture estimation using the unscented weighted ensemble Kalman filter. **2022**, 313, 108745 0
- 362 Particle Network Ensemble Kalman Filter. **2021**,
- 361 Sensitivity of Forecast Uncertainty to Different Microphysics Schemes within a Convection-Allowing Ensemble during SoWMEX-IOP8. **2021**, 1
- 360 Uncertainty propagation within a water level ensemble prediction system. **2021**, 127193
- 359 Assimilation of Ground and Satellite Snow Observations in a Distributed Hydrologic Model for Water Supply Forecasting. 1
- 358 Implementing Hybrid Background Error Covariance into the LETKF with Attenuation-based Localization: Experiments with a Simplified AGCM. **2021**, 0
- 357 Estimation of evapotranspiration of Soil-vegetationSystem with a scheme combining a dual-source model and satellite data assimilation. **2021**, 603, 127145 4
- 356 Seawater Breakthrough Monitoring and Reservoir-Model Improvement Using Natural Boron. **2021**,
- 355 Predicting Thermal Performance of an Enhanced Geothermal System From Tracer Tests in a Data Assimilation Framework. **2021**, 57, e2021WR030987 1
- 354 Ocean Wave Modeling from Satellite Images Using Data Assimilation. **2022**, 77-87
- 353 Lagrangian Data Assimilation for Improving Model Estimates of Velocity Fields and Residual Currents in a Tidal Estuary. **2021**, 11, 11006
- 352 Trivial improvements in predictive skill due to direct reconstruction of the global carbon cycle. **2021**, 12, 1139-1167 0
- 351 Ensemble kalman filter and particle filter-based state estimation on electrical power systems. **2021**, 2090, 012016

- 350 Data assimilation for uncertainty reduction using different fidelity numerical models. **2021**, 109851 1
- 349 Creation of a global tide analysis dataset: Application of NEMO and an offline objective analysis scheme. 1-14
- 348 Reliable channel reservoir characterization and uncertainty quantification using variational autoencoder and ensemble smoother with multiple data assimilation. **2021**, 209, 109816 0
- 347 Improved High Resolution Ocean Reanalyses Using a Simple Smoother Algorithm. **2021**, 13, e2021MS002626 0
- 346 Research and application of parameter estimation method in hydrological model based on dual ensemble Kalman filter. 0
- 345 Improving Flood Forecasting Using Conditional Bias-Aware Assimilation of Streamflow Observations and Dynamic Assessment of Flow-Dependent Information Content. **2021**, 127247 1
- 344 Substituting petro-elastic model with a new proxy to assimilate time-lapse seismic data considering model errors. **2021**, 109970 0
- 343 EXTRACTION OF FILTERS APPLICABLE TO FLOOD FORECASTING MODEL AND PERFORMANCE EVALUATION BY INFORMATION CRITERION. **2020**, 76, I\_433-I\_438
- 342 Learning stochastic closures using ensemble Kalman inversion. **2021**, 5, 2
- 341 . **2021**, 9, 156758-156767 1
- 340 Combining data assimilation and machine learning to estimate parameters of a convective-scale model. 1
- 339 Bayesian Calibration for Large-Scale Fluid Structure Interaction Problems Under Embedded/Immersed Boundary Framework. 0
- 338 A case study of reservoir parameter estimation in Norne oil field, Norway by using Ensemble Kalman Filter (EnKF). **2022**, 61-78 1
- 337 Simultaneous identification of groundwater contaminant source and simulation model parameters based on an ensemble Kalman filter Adaptive step length ant colony optimization algorithm. **2022**, 605, 127352 1
- 336 Improving PM predictions during COVID-19 lockdown by assimilating multi-source observations and adjusting emissions.. **2021**, 297, 118783 1
- 335 Distinguishing Inflation Drivers at Shallow Magmatic Systems using Ensemble-Based Data Assimilation. **2020**, 0
- 334 Ensemble Kalman Filter using Gaussian-Sum Predicted State Probability Density Functions. **2021**, 2021, 21-27
- 333 An Iterative Ensemble Transform Kalman Filter Based on the Smoothing and the Filtering Steps. **2021**,



- 332 Sensitivity-Based Soil Moisture Assimilation for Improved Streamflow Forecast Using a Novel Forward Sensitivity Method (FSM) Approach. **2022**, 58, 0
- 331 Coupling the Community Land Model version 5.0 to the parallel data assimilation framework PDAF: description and applications. **2022**, 15, 395-411 0
- 330 Comparison of surface and lateral boundary conditions controlled by pseudo-altimeter data assimilation for a regional Kuroshio model. **2022**, 78, 73
- 329 Nonlinear Denoising of Nonstationary Signals. **2022**, 843-855
- 328 Assimilation and extension of particle image velocimetry data of turbulent Rayleigh-Bénard convection using direct numerical simulations. **2022**, 63, 1 0
- 327 Hierarchical sparse Cholesky decomposition with applications to high-dimensional spatio-temporal filtering. **2022**, 32, 1 0
- 326 Ensemble Kalman Filter based Data Assimilation for Tropical Waves in the MJO Skeleton Model. 0
- 325 Output-Feedback Controller Design for a Detailed Model of Flow around a Cylinder. **2022**,
- 324 Crustal-scale thermal models: revisiting the influence of deep boundary conditions. **2022**, 81, 1 1
- 323 Use of Power Transform Total Number Concentration as Control Variable for Direct Assimilation of Radar Reflectivity in GSI En3DVar and Tests with Six Convective Storms Cases. **2022**,
- 322 A cost-effective building fire smoke spread prediction approach for risk mitigation based on data assimilation using Ensemble Kalman Filter.
- 321 Parsimonious Velocity Inversion Applied to the Los Angeles Basin, CA. **2022**, 127, 0
- 320 Initial state estimation from limited observations of the heat equation in metric graphs. **2022**, 38, 035007
- 319 Updated Scheme for Data Assimilation of Adaptive Observation And Application for Typhoon Forecasts Over the Western North Pacific.
- 318 The Joint Assimilation of Remotely Sensed Leaf Area Index and Surface Soil Moisture into a Land Surface Model. **2022**, 14, 437 1
- 317 Improvement of Flood Extent Representation with Remote Sensing Data and Data Assimilation. **2022**, 1-1 0
- 316 A Mechanism for the Skew of Ensemble Forecasts.
- 315 Data Assimilation of Nowcasted Observations. **2022**, 0

- 314 Stochastic parametrization: an alternative to inflation in Ensemble Kalman filters. 3
- 313 Ensemble-Based Well-Log Interpretation and Uncertainty Quantification for Well Geosteering. 1-43 0
- 312 Generalizability evaluation of k- $\Gamma$  models calibrated by using ensemble Kalman filtering for urban airflow and airborne contaminant dispersion. **2022**, 212, 108823
- 311 Recent Trends in Underwater Visible Light Communication (UVLC) Systems. **2022**, 1-1 11
- 310 Estimation of Root zone Soil Moisture Profile by Reduced-Order Variational Data Assimilation using Surface Soil Moisture Observation. **2022**, 1-1 1
- 309 Mechanistic model-based nonlinear filtering and observation techniques for optimal state/parameter estimation. **2022**, 59-89
- 308 Data assimilation of volcanic aerosol observations using FALL3D+PDAF. **2022**, 22, 1773-1792 3
- 307 Observation System Simulation Experiments ( OSSEs ) for Assimilation of the Planetary Boundary Layer Height ( PBLH ) using the EnSRF Technique.
- 306 A Novel Data Sampling Driven Kalman Filter Is Designed by Combining the Characteristic Sampling of UKF and the Random Sampling of EnKF.. **2022**, 22, 0
- 305 A scalable model-independent iterative data assimilation tool for sequential and batch estimation of high dimensional model parameters and states. **2022**, 150, 105284
- 304 The statistical observation localized equivalent-weights particle filter in a simple nonlinear model. **2022**, 41, 80-90 1
- 303 A Comparison between 3DVAR and EnKF for Data Assimilation Effects on the Yellow Sea Fog Forecast. **2018**, 9, 346 4
- 302 Optimized Parametric Inference between Multilevel Physical Representations in Multigrid Ensemble Kalman Filter.
- 301 Best Linear Unbiased Estimation. **2022**, 1-7
- 300 Physics informed model error for data assimilation. **2022**,
- 299 Nonlinear Data Assimilation by Deep Learning Embedded in an Ensemble Kalman Filter. **2022**, 0
- 298 Ensemble Riemannian data assimilation: towards large-scale dynamical systems. **2022**, 29, 77-92 0
- 297 An Initial Field Intelligent Correcting Algorithm for Numerical Forecasting Based on Artificial Neural Networks under the Conditions of Limited Observations: Part I focusing on Ocean Temperature. **2022**, 10, 311 1

296	Rock Physics-Based Data Assimilation of Integrated Continuous Active-Source Seismic and Pressure Monitoring Data during Geological Carbon Storage. <b>2022</b> , 1-15	
295	Recherche en Prvision Numfrique Contributions to Numerical Weather Prediction. 1-30	
294	Bridging Deep Convolutional Autoencoders and Ensemble Smoothers for Improved Estimation of Channelized Reservoirs. 1	0
293	Perturbation of Boundary Conditions to Create Appropriate Ensembles for Regional Data Assimilation in Coastal Estuary Modeling.	1
292	Improving Ocean Forecasting Using Deep Learning and Numerical Model Integration. <b>2022</b> , 10, 450	1
291	A Statistical Interpolation Code for Ocean Analysis and Forecasting. <b>2022</b> , 39, 367-386	0
290	Research on data assimilation strategy of turbulent separated flow over airfoil. <b>2022</b> , 43, 571-586	0
289	A Stochastic Levenberg--Marquardt Method Using Random Models with Complexity Results. <b>2022</b> , 10, 507-536	0
288	Ensemble Data Assimilation of Concentration Measurements Following the Accidental Release of a Contaminant in the Ocean: Method Testing in an Idealized Setting. 1	
287	Integrating Recurrent Neural Networks With Data Assimilation for Scalable Data-Driven State Estimation. <b>2022</b> , 14,	2
286	Inference in epidemiological agent-based models using ensemble-based data assimilation.. <b>2022</b> , 17, e0264892	1
285	Multiplicative non-Gaussian model error estimation in data assimilation.	
284	A comparison of nonlinear extensions to the ensemble Kalman filter: Gaussian anamorphosis and two-step ensemble filters.. <b>2022</b> , 1-18	0
283	Monitoring of Large-Scale CO 2 Injection Using CSEM, Gravimetric, and Seismic AVO Data. <b>2022</b> , 273-301	
282	Control simulation experiment with Lorenz's butterfly attractor. <b>2022</b> , 29, 133-139	
281	Real-Time Inference and Uncertainty Quantification of Friction for Coiled Tubing Operations. <b>2022</b> ,	
280	State Estimators in Soft Sensing and Sensor Fusion for Sustainable Manufacturing. <b>2022</b> , 14, 3635	1
279	Using Ensemble Data Assimilation to Estimate Transient Hydrologic Exchange Flow under Highly Dynamic Flow Conditions.	2

- 278 Comparison of Perturbation Strategies for the Initial Ensemble in Ocean Data Assimilation with a Fully Coupled Earth System Model. **2022**, 10, 412 0
- 277 Object-based Verification of GSI'EnKF and Hybrid En3DVar Radar Data Assimilation and Convection-Allowing Forecasts within a Warn-on-Forecast Framework. **2022**, 1
- 276 Towards physics-inspired data-driven weather forecasting: integrating data assimilation with a deep spatial-transformer-based U-NET in a case study with ERA5. **2022**, 15, 2221-2237 3
- 275 3-D Regional Ionosphere Imaging and SED Reconstruction With a New TEC-Based Ionospheric Data Assimilation System (TIDAS). **2022**, 20, 2
- 274 Determination of rainfed wheat agriculture potential through assimilation of remote sensing data with SWAT model case study: ZarrinehRoud Basin, Iran. 0
- 273 Model predictive force control in milling based on an ensemble Kalman filter. 1 0
- 272 Shock trace prediction by reduced models for a viscous stochastic Burgers equation.. **2022**, 32, 043109 2
- 271 Improving the forecast accuracy of ECMWF 2-m air temperature using a historical dataset. **2022**, 106177 1
- 270 Implementation of an ensemble Kalman filter in the Community Multiscale Air Quality model (CMAQ model v5.1) for data assimilation of ground-level PM<sub>2.5</sub>. **2022**, 15, 2773-2790 0
- 269 Short-term convection-allowing ensemble precipitation forecast sensitivity to resolution of initial condition perturbations and central initial states. **2022**, 1
- 268 Development of a stochastic hydrological modeling system for improving ensemble streamflow prediction. **2022**, 608, 127683 1
- 267 A novel ensemble H-infinity proposal density based particle filtering to improve flux estimation in nonlinear point kinetic model. **2022**, 147, 104186 0
- 266 EnKF data-driven reduced order assimilation system. **2022**, 139, 46-55 3
- 265 Modeling and state of charge estimation of inconsistent parallel lithium-ion battery module. **2022**, 51, 104565 0
- 264 Implementation of Ensemble Kalman Filters in Stone-Soup. **2021**, 0
- 263 Towards Zero-Waste Recovery and Zero-Overhead Checkpointing in Ensemble Data Assimilation. **2021**, 0
- 262 Ensemble Kalman Filter for Continuous-Discrete State-Space Models. **2021**, 0
- 261 Data-enhanced Kalman filtering of colored process noise. **2021**, 0

- 260 Derivation of ensemble Kalman-Bucy filters with unbounded nonlinear coefficients. **2022**, 35, 1061-1092 2
- 259 Observation error covariance specification in dynamical systems for data assimilation using recurrent neural networks. 1 3
- 258 Propagating information from snow observations with CrocO ensemble data assimilation system: a 10-years case study over a snow depth observation network. **2022**, 16, 1281-1298 0
- 257 storm time neutral density assimilation in the thermosphere ionosphere with tida. 0
- 256 Vertical aerosol data assimilation technology and application based on satellite and ground lidar: A review and outlook. **2022**, 3, 127-140 0
- 255 Contaminant source characterization in a coastal aquifer influenced by tidal forces and density-driven flow. **2022**, 610, 127807 0
- 254 Characterization of the non-Gaussian hydraulic conductivity field via deep learning-based inversion of hydraulic-head and self-potential data. **2022**, 610, 127830 0
- 253 DataSheet1.pdf. **2017**, 1, 1-10 0
- 252 Optimal Combination Bootstrap Particle Filter. 0
- 251 Estimation of Spray Flow Characteristics Using Ensemble Kalman Filter. 0
- 250 Stochastic Parameterization Using Compressed Sensing: Application to the Lorenz-96 Atmospheric Model. **2022**, 74, 1-10 0
- 249 An aerosol vertical data assimilation system (NAQPMS-PDAF v1.0): development and application. **2022**, 15, 3555-3585 1
- 248 Assimilation of Radar Reflectivity Using A Time-Lagged Ensemble Based Ensemble Kalman Filter With the Cloud-Dependent Background Error Covariances. 0
- 247 An Analog Offline EnKF for Paleoclimate Data Assimilation. **2022**, 14, 1-10 0
- 246 An improved framework for the dynamic likelihood filtering approach to data assimilation. **2022**, 32, 053118 0
- 245 Testing the feature alignment technique (FAT) in an ensemble-based data assimilation and forecast system with multiple-storm scenarios. **2022**, 1, 1-10 0
- 244 A new robust discharge estimation method applied in the context of SWOT satellite data processing. **2022**, 127909 0
- 243 A Review of Data Assimilation on Aerosol Optical, Radiative, and Climatic Effects Study. 0

- 242 Variational Autoencoder or Generative Adversarial Networks? A Comparison of Two Deep Learning Methods for Flow and Transport Data Assimilation. 1 0
- 241 Parameter estimation for a global tide and surge model with a memory-efficient order reduction approach. **2022**, 173, 102011 1
- 240 Ensemble Kalman inversion for general likelihoods. **2022**, 109523 0
- 239 Kara and Barents sea ice thickness estimation based on CryoSat-2 radar altimeter and Sentinel-1 dual-polarized synthetic aperture radar. **2022**, 16, 1821-1844 1
- 238 Recursive analysis of added mass, damping coefficient, and wave-exciting force using time-series data of two-dimensional floating body motion only. **2022**, 123, 103158
- 237 Iterated Kalman methodology for inverse problems. **2022**, 463, 111262 1
- 236 Dynamic Space-Time Model for Syndromic Surveillance with Particle Filters and Dirichlet Process. **2022**, 147-160
- 235 Flood Forecasting via the Ensemble Kalman Filter Method Using Merged Satellite and Measured Soil Moisture Data. **2022**, 14, 1555
- 234 Identification of ship motion performance of coupled heave and pitch using experimental irregular time-series data. 0
- 233 Integrating remotely sensed water stress factor with a crop growth model for winter wheat yield estimation in the North China Plain during 2008–2018. **2022**, 3
- 232 Top-down approaches. **2022**, 87-155
- 231 Recent Trends on Nonlinear Filtering for Inverse Problems. **2022**, 13, 10-20
- 230 The impact of hybrid oceanic data assimilation in a coupled model: a case study of a tropical cyclone.
- 229 Assimilation of surface soil moisture jointly retrieved by multiple microwave satellites into the WRF-Hydro model in ungauged regions: Towards a robust flood simulation and forecasting. **2022**, 154, 105421
- 228 Particle-Assisted Laser-Induced Inertial Cavitation for High Strain-Rate Soft Material Characterization.
- 227 Extension simplified seepage analysis system assessment of water inflow quantity during a tunnel construction and its application to an actual tunnel construction. **2022**, 17, 135-145
- 226 Assimilation of groundwater level and soil moisture data in an integrated land surface-subsurface model for southwestern Germany. 1
- 225 Multifidelity Ensemble Kalman Filtering Using Surrogate Models Defined by Theory-Guided Autoencoders. **2022**, 8, 1

224	Data assimilation of adaptive observation and application for typhoon forecasts over the Western North Pacific. <b>2022</b> , 106274	0
223	Assimilating remote sensing-based VPM GPP into the WOFOST model for improving regional winter wheat yield estimation. <b>2022</b> , 139, 126556	4
222	Ensemble Kalman Filtering. <b>2021</b> , 1-5	
221	Deep Learning-Enhanced Ensemble-Based Data Assimilation for High-Dimensional Nonlinear Dynamical Systems.	0
220	Dynamical models in neuroscience from a closed-loop control perspective. <b>2022</b> , 1-16	
219	Degeneracy-Free Particle Filter: Ensemble Kalman Smoother Multiple Distribution Estimation Filter. <b>2022</b> , 1-6	
218	Autodifferentiable Ensemble Kalman Filters. <b>2022</b> , 4, 801-833	1
217	An online ensemble coupled data assimilation capability for the Community Earth System Model: system design and evaluation. <b>2022</b> , 15, 4805-4830	0
216	A Four-Dimensional Ensemble-Variational (4DEnVar) Data Assimilation System based on GRAPES-GFS: System Description and Primary Tests.	0
215	Improving Short-term Precipitation Forecasting with Radar Data Assimilation and a Multiscale Hybrid Ensemble-Variational Strategy. <b>2022</b> ,	1
214	A Stabilization of a Continuous Limit of the Ensemble Kalman Inversion. <b>2022</b> , 60, 1494-1515	2
213	A novel neural network training framework with data assimilation.	
212	A stochastic covariance shrinkage approach to particle rejuvenation in the ensemble transform particle filter. <b>2022</b> , 29, 241-253	
211	Analytical Four-Dimensional Ensemble Variational Data Assimilation for Joint State and Parameter Estimation. <b>2022</b> , 13, 993	1
210	Discovery of interpretable structural model errors by combining Bayesian sparse regression and data assimilation: A chaotic Kuramoto-Bivashinsky test case. <b>2022</b> , 32, 061105	
209	Uncertainty quantification of multi-source hydrological data products for the improvement of water budget estimations in small-scale Sakarya basin, Turkey.	1
208	Assimilation of blended in situ-satellite snow water equivalent into the National Water Model for improving hydrologic simulation in two US river basins. <b>2022</b> , 838, 156567	1
207	Ensemble Latent Assimilation with Deep Learning Surrogate Model: Application to Drop Interaction in Microfluidics Device.	1

- 206 Augmentation of Cross-Sectional Spray Measurements with Discrete Droplet Model Using Ensemble Kalman Filter. **2022**, 36, 125-137 o
- 205 Initial State Estimation Problems of Partial Differential Equations in Metric Graphs. **2022**, 35, 62-67
- 204 Ensemble Kalman Filter Based LiDAR Odometry for Skewed Point Clouds Using Scan Slicing. **2022**,
- 203 On Two Localized Particle Filter Methods for Lorenz 1963 and 1996 Models. 8,
- 202 Multilevel Ensemble Kalman-Bucy Filters. **2022**, 10, 584-618 2
- 201 A 4DEnVar-based Ensemble Four-Dimensional Variational (En4DVar) Hybrid Data Assimilation System for Global NWP: System Description and Primary Tests. o
- 200 Data fusion system for monitoring water quality: Application to chlorophyll-a in Baltic sea coast. **2022**, 105465 o
- 199 Improving Soil Water Content and Surface Flux Estimation Based on Data Assimilation Technique. **2022**, 14, 3183
- 198 Irrigation characterization improved by the direct use of SMAP soil moisture anomalies within a data assimilation system. o
- 197 Multiscale Assimilation of Sentinel and Landsat Data for Soil Moisture and Leaf Area Index Predictions Using an Ensemble-Kalman-Filter-Based Assimilation Approach in a Heterogeneous Ecosystem. **2022**, 14, 3458 o
- 196 Assimilation of global satellite leaf area estimates reduces modeled global carbon uptake and energy loss by terrestrial ecosystems.
- 195 A multi-fidelity ensemble Kalman filter with hyperreduced reduced-order models. **2022**, 398, 115282
- 194 Revising precipitation & water storages & vegetation signatures with GRACE-based data assimilation. **2022**, 612, 128096 o
- 193 Assessing future climate change impacts on groundwater recharge in Minnesota. **2022**, 612, 128112
- 192 Impact of model and data resolutions in 4D seismic data assimilation applied to an offshore reservoir in Brazil. **2022**, 216, 110830
- 191 A metric tensor approach to data assimilation with adaptive moving meshes. **2022**, 466, 111407
- 190 Improving the prediction of heavy rainfall with rapid-update dual-resolution hybrid En3DVar assimilation of all-sky AHI infrared water vapor radiances. **2022**, 106352
- 189 Improving the joint estimation of CO<sub>2</sub> and surface carbon fluxes using a constrained ensemble Kalman filter in COLA (v1.0). **2022**, 15, 5511-5528 1



188 Monte Carlo Method. **2022**, 1-7

187 Observability-Aware Ensemble Kalman Filter for Reservoir Model Updating. **2022**,

186 Group-Based Dimensionality Reduction and Estimation for Heterogeneous Large-Scale Traffic Networks. **2022**,

185 A Stochastic Approximation-Langevinized Ensemble Kalman Filter Algorithm for State Space Models with Unknown Parameters. 1-45

184 Synchronous Assimilation of Tidal Current-Related Data Obtained Using Coastal Acoustic Tomography and High-Frequency Radar in the Xiangshan Bay, China. **2022**, 14, 3235

0

183 Options for the Implementations of Data Assimilation for Geotechnics. **2023**, 255-262

182 Hybrid ensemble-variational data assimilation in ABC-DA within a tropical framework. **2022**, 15, 6197-6219

181 Hybrid Iterative Ensemble Smoother for History Matching of Hierarchical Models.

180 Predicting discharge from a complex karst system using the ensemble smoother with multiple data assimilation.

0

179 Augmenting covariance estimation for ensemble-based data assimilation in multiple-query scenarios. 1-30

178 Sequential and batch data assimilation approaches to cope with groundwater model error: An empirical evaluation. **2022**, 105498

0

177 Data assimilation for surface wave method by ensemble Kalman filter with random field modeling.

176 Wind turbine quantification and reduction of uncertainties based on a data-driven data assimilation approach..

1

175 Training Physics-Based Machine-Learning Parameterizations With Gradient-Free Ensemble Kalman Methods. **2022**, 14,

1

174 Continuum Covariance Propagation for Understanding Variance Loss in Advective Systems. **2022**, 10, 886-914

1

173 Dynamic Parameter Calibration Framework for Opinion Dynamics Models. **2022**, 24, 1112

172 A probabilistic data assimilation framework to reconstruct finite element error fields from sparse error estimates: Application to sub-modeling.

171 Recent advancements for tropical cyclone data assimilation.

1

- 170 Improving indoor air flow and temperature prediction with local measurements based on CFD-EnKF data assimilation. **2022**, 223, 109511 ○
- 169 TunaOil: A tuning algorithm strategy for reservoir simulation workloads. **2022**, 63, 101811
- 168 An ensemble-based decision workflow for reservoir management. **2022**, 217, 110858 ○
- 167 genES-MDA: A generic open-source software package to solve inverse problems via the Ensemble Smoother with Multiple Data Assimilation. **2022**, 167, 105210 ○
- 166 Comparison of severe convection forecasts over China from assimilating Doppler radar observations using 4DEnKF and EnKF approaches. **2022**, 279, 106376
- 165 An Overview of Snow Water Equivalent: Methods, Challenges, and Future Outlook. **2022**, 14, 11395 ○
- 164 A Frequency-Dependent Assimilation Algorithm: Ensemble Optimal Smoothing. **2022**, 10, 1324 ○
- 163 History matching of petroleum reservoirs using deep neural networks. **2022**, 16, 200128 1
- 162 Full Bayesian inference in hidden Markov models of plant growth. **2022**, 16, ○
- 161 Multi-index ensemble Kalman filtering. **2022**, 470, 111561 1
- 160 Simulating Runoff and Actual Evapotranspiration via Time-Variant Parameter Method: The Effects of Hydrological Model Structures. **2022**, 27, ○
- 159 Ensemble Kalman inversion for sparse learning of dynamical systems from time-averaged data. **2022**, 470, 111559 1
- 158 Analysis of COVID-19 in Japan with extended SEIR model and ensemble Kalman filter. **2023**, 419, 114772 ○
- 157 METHOD FOR ESTIMATING SEEPAGE ANALYSIS MODEL INCLUDING BOUNDARY CONDITION USING MERGING PARTICLE FILTER. **2022**, 10, 368-380 ○
- 156 Improving Indoor Multiphysics Prediction with Local Measurements Based on Data Assimilation. **2022**, 356, 04001 ○
- 155 An Optimized Plane Change Solution for Microsatellite Formation Flying. **2022**, 1-1 ○
- 154 Extraction of Filters Applicable to Flood Forecasting Model and Performance Evaluation by Information Criterion. **2022**, 737-752 ○
- 153 Gaussian Variational Approximations for High-dimensional State Space Models. **2022**, -1, 2

152	A Novel ECG Denoising Scheme Using the Ensemble Kalman Filter. <b>2022</b> ,	0
151	Joint History Matching of Multiple Types of Field Data in a 3D Field-Scale Case Study. <b>2022</b> , 15, 6372	0
150	Log-normalization constant estimation using the ensemble KalmanBucy filter with application to high-dimensional models. 1-25	1
149	The Impact of Incremental Analysis Update on Regional Simulations for Typhoons. <b>2022</b> , 14,	0
148	Application of Kalman Filter to Large-Scale Geospatial Data.	0
147	Precision and convergence speed of the ensemble Kalman filter-based parameter estimation: setting parameter uncertainty for reliable and efficient estimation. <b>2022</b> , 9,	0
146	On convergence rates of adaptive ensemble Kalman inversion for linear ill-posed problems. <b>2022</b> , 152, 371-409	1
145	Challenges and benefits of quantifying irrigation through the assimilation of Sentinel-1 backscatter observations into Noah-MP. <b>2022</b> , 26, 4685-4706	0
144	Sparse Online Variational Bayesian Regression. <b>2022</b> , 10, 1070-1100	1
143	Deep Learning for Simultaneous Inference of Hydraulic and Transport Properties. <b>2022</b> , 58,	0
142	Splitting-up Spectral Method for Nonlinear Filtering Problems with Correlation Noises. <b>2022</b> , 93,	0
141	Comparative Analysis between Genetic Algorithm and Simulated Annealing-Based Frameworks for Optimal Sensor Placement and Structural Health Monitoring Purposes. <b>2022</b> , 12, 1383	1
140	An application of the A-4DnVar to coupled parameter optimization. <b>2022</b> , 41, 60-70	0
139	Scalable spatio-temporal smoothing via hierarchical sparse Cholesky decomposition.	1
138	Particle network EnKF for large-scale data assimilation. 10,	0
137	Application of the model combining demand forecasting and inventory decision in feature based newsvendor problem. <b>2022</b> , 108709	0
136	A Lagged Particle Filter for Stable Filtering of Certain High-Dimensional State-Space Models. <b>2022</b> , 10, 1130-1161	0
135	Large-scale snow data assimilation using a spatialized particle filter: recovering the spatial structure of the particles. <b>2022</b> , 16, 3489-3506	0

- 134 SWAT\_DA: Sequential Multivariate Data Assimilation-Oriented Modification of SWAT. ○
- 133 Optimized parametric inference for the inner loop of the Multigrid Ensemble Kalman Filter. **2022**, 471, 111621 ○
- 132 Estimation of spray flow characteristics using ensemble Kalman filter. **2022**, 88, 102247 ○
- 131 South China Sea Observation and Data Assimilation. **2022**, 395-441 ○
- 130 A Bayesian data assimilation framework for lake 3D hydrodynamic models with a physics-preserving particle filtering method using SPUX-MITgcm v1. **2022**, 15, 7715-7730 ○
- 129 Soil Moisture Data Assimilation in MISDc for Improved Hydrological Simulation in Upper Huai River Basin, China. **2022**, 14, 3476 1
- 128 A low-rank ensemble Kalman filter for elliptic observations. **2022**, 478, 2
- 127 Continuous Hyper-parameter OPTimization (CHOP) in an ensemble Kalman filter. 8, ○
- 126 Bayesian inference for fluid dynamics: A case study for the stochastic rotating shallow water model. 8, ○
- 125 Modifying Covariance Localization to Mitigate Sampling Errors from the Ensemble Data Assimilation. **2022**, 2022, 1-17 ○
- 124 Efficient derivative-free Bayesian inference for large-scale inverse problems. **2022**, 38, 125006 1
- 123 Real-time Uncertain Geological Boundaries Updating for Improved Block Model Quality Control Based on Blast Hole Data: A Case Study for Golgohar Iron Ore Mine in Southeastern Iran. ○
- 122 Verification of a real-time ensemble-based method for updating earth model based on GAN. **2022**, 65, 101876 1
- 121 A comprehensive review of battery state of charge estimation techniques. **2022**, 54, 102801 ○
- 120 Data assimilation in a regional high-resolution ocean model by using Ensemble Adjustment Kalman Filter and its application during 2020 cold spell event over Asia-Pacific region. **2022**, 129, 103375 ○
- 119 Improvement of accuracy with uncertainty quantification in the simulation of a ground heat exchanger by combining model prediction and observation. **2023**, 107, 102611 ○
- 118 Damage identification in fiber metal laminates using Bayesian analysis with model order reduction. **2023**, 403, 115737 ○
- 117 Particle Gaussian Mixture Filters: Application and Performance Evaluation. **2019**, ○

- 116 Non-Euclidean Kalman Filters for Nonlinear Measurements. **2019**, [10.1016/j.isci.2019.100251](#) [O](#)
- 115 Ballistic Trajectory Estimation Using Polynomial Chaos Based Square Root Ensemble Filter. **2019**, [10.1016/j.isci.2019.100251](#) [O](#)
- 114 Ensemble Kalman Filter for Hourly Streamflow Forecasting in Huaynamota River, Nayarit, Mxico. **2022**, 42, e90023 [O](#)
- 113 Ensemble random forest filter: An alternative to the ensemble Kalman filter for inverse modeling. **2022**, 128642 [O](#)
- 112 Simulating surface height and terminus position for marine outlet glaciers using a level set method with data assimilation. **2022**, 111766 [O](#)
- 111 Akatsuki LIR observing system simulation experiments evaluated by thermal tides in the Venus atmosphere. **2022**, 9, [10.1016/j.isci.2022.101176](#) [O](#)
- 110 Assimilation of Backscatter Observations into a Hydrological Model: A Case Study in Belgium Using ASCAT Data. **2022**, 14, 5740 [O](#)
- 109 Improving Lake Level Prediction by Embedding Support Vector Regression in a Data Assimilation Framework. **2022**, 14, 3718 [O](#)
- 108 A local particle filter and its Gaussian mixture extension implemented with minor modifications to the LETKF. **2022**, 15, 8325-8348 [O](#)
- 107 On Oceanic Initial State Errors in the Ensemble Data Assimilation for a Coupled General Circulation Model. [10.1016/j.isci.2022.101176](#) [O](#)
- 106 An ensemble Kalman filter system with the Stony Brook Parallel Ocean Model v1.0. **2022**, 15, 8395-8410 [O](#)
- 105 Ensemble-Based Flow Field Estimation Using the Dynamic Wind Farm Model FLORIDyn. **2022**, 15, 8589 [O](#)
- 104 Introduction. **2023**, 1-6 [O](#)
- 103 Ensemble-Based Data Assimilation. **2023**, 815-863 [O](#)
- 102 Bibliography. **2023**, 1073-1094 [O](#)
- 101 Optimality vs Stability Trade-off in Ensemble Kalman Filters. **2022**, 55, 335-340 [O](#)
- 100 Physics-constrained Gaussian process regression for soil moisture dynamics. **2023**, 616, 128779 [O](#)
- 99 A combined search method based on a deep learning combined surrogate model for groundwater DNAPL contamination source identification. **2023**, 616, 128854 [O](#)

- 98 State estimation in minimal turbulent channel flow: A comparative study of 4DVar and PINN. **2023**, 99, 109073 ○
- 97 Identifying a fractional order and a time-dependent coefficient in a time-fractional diffusion wave equation. **2023**, 424, 114995 ○
- 96 Efficient Model Selection in Switching Linear Dynamic Systems by Graph Clustering. **2022**, 29, 2482-2486 ○
- 95 Kronecker-structured covariance models for multiway data. **2022**, 16, ○
- 94 Observation-Based Noise Calibration: An Efficient Dynamics for the Ensemble Kalman Filter. **2023**, 43-56 ○
- 93 GESTRA - upgrading to future distributed phased array radar networks for space surveillance. **2022**, ○
- 92 Convergence of forecast distributions in a 100,000 member idealised convective-scale ensemble. ○
- 91 Scalable deep learning for watershed model calibration. 10, ○
- 90 Hydrometeorological Extreme Events in West Africa: Droughts. ○
- 89 Ensemble quantification of short-term predictability of the ocean dynamics at a kilometric-scale resolution: a Western Mediterranean test case. **2022**, 18, 1619-1644 ○
- 88 An ensemble Kalman filter-based ocean data assimilation system improved by adaptive observation error inflation (AOEI). **2022**, 15, 9057-9073 ○
- 87 Application of Soil Moisture Data Assimilation in Flood Forecasting of Xun River in Hanjiang River Basin. **2022**, 14, 4061 ○
- 86 Ground Subsidence Monitoring in a Mining Area Based on Mountainous Time Function and EnKF Methods Using GPS Data. **2022**, 14, 6359 ○
- 85 The Multiple Snow Data Assimilation System (MuSA v1.0). **2022**, 15, 9127-9155 ○
- 84 Rapid prediction of wildfire spread using ensemble Kalman filter and polyline simplification. **2022**, 105610 ○
- 83 Improving the estimation of thermospheric neutral density via two-step assimilation of in situ neutral density into a numerical model. **2022**, 74, ○
- 82 Generalised Latent Assimilation in Heterogeneous Reduced Spaces with Machine Learning Surrogate Models. **2023**, 94, 4
- 81 Chemistry-Weather Interacted Model System GRAPES\_Meso5.1/CUACE CW V1.0: Development, Evaluation and Application in Better Haze/Fog Prediction in China. **2022**, 14, ○

- 80 The Influence of FY-4A High-Frequency LST Data on Data Assimilation in a Climate Model. **2023**, 15, 59 ○
- 79 A data assimilation method to track time-varying changes in the excitation-inhibition balance using scalp EEG. ○
- 78 Scaling Up Bayesian Uncertainty Quantification for Inverse Problems Using Deep Neural Networks. **2022**, 10, 1684-1713 ○
- 77 Estimation of Hydraulic Parameters in a Heterogeneous Low-lying Farmland Near Venice. ○
- 76 Building a Better Forecast: Reformulating the Ensemble Kalman Filter for Improved Applications to Volcano Deformation. ○
- 75 EnsembleKalmanProcesses.jl: Derivative-free ensemble-based model calibration. **2022**, 7, 4869 ○
- 74 Inferring surface energy fluxes using drone data assimilation in large eddy simulations. **2022**, 15, 7293-7314 ○
- 73 Hydrometeorological Forecast of a Typical Watershed in an Arid Area Using Ensemble Kalman Filter. **2022**, 14, 3970 ○
- 72 Continuous Time Limit of the Stochastic Ensemble Kalman Inversion: Strong Convergence Analysis. **2022**, 60, 3181-3215 1
- 71 Localization and development of residual oil reserves using geochemical studies based on neural network algorithms. **2022**, 24, 50-64 ○
- 70 An operational improvement of A-4DEnVar and its application to the estimation of the spatially varying bottom friction coefficients of the M2 constituent in the Bohai and Yellow seas. 9, ○
- 69 Guidance on how to improve vertical covariance localization based on a 1000-member ensemble. **2023**, 30, 13-29 ○
- 68 Saving Costly Experiments and Simulations through Machine Learning. **2023**, 627-643 ○
- 67 A hybrid data assimilation system based on machine learning. 10, ○
- 66 SMAP soil moisture data assimilation impacts on water quality and crop yield predictions in watershed modeling. **2023**, 129122 ○
- 65 Improvement of Transition Prediction Model in Hypersonic Boundary Layer Based on Field Inversion and Machine Learning Framework. ○
- 64 Inverse estimation of multiple contaminant sources in three-dimensional heterogeneous aquifers with variable-density flows. **2023**, 617, 129041 ○
- 63 Joint identification of contaminant source based on the ensemble Kalman filter integrated with relation coefficient. **2023**, 617, 129057 ○

- 62 Near-term forecasts of stream temperature using deep learning and data assimilation in support of management decisions. o
- 61 INVESTIGATING EFFECTIVE RAIN GAUGE LOCATIONS THROUGH THE DATA-DRIVEN SPARSE SENSOR PLACEMENT METHOD. **2022**, 78, I\_385-I\_390 o
- 60 Application of particle filter to assess uncertainty for reservoir state and parameter estimation. **2023**, 211481 o
- 59 Reservoir automatic history matching method using ensemble Kalman filter based on shrinkage covariance matrix estimation. 1-9 o
- 58 Data Assimilation for Microstructure Evolution in Kinetic Monte Carlo. **2023**, 561-575 o
- 57 Densifying and Optimizing the Water Level Series for Large Lakes from Multi-Orbit ICESat-2 Observations. **2023**, 15, 780 1
- 56 Data assimilation. **2023**, 135-151 o
- 55 An ensemble modelling approach for spatiotemporally explicit estimation of fish distributions using data assimilation. **2023**, 261, 106624 o
- 54 Deep learning-enhanced ensemble-based data assimilation for high-dimensional nonlinear dynamical systems. **2023**, 477, 111918 o
- 53 Hierarchical ensemble Kalman methods with sparsity-promoting generalized gamma hyperpriors. **2023**, 0-0 o
- 52 Large-scale phase-field simulations for dendrite growth: A review on current status and future perspective. **2023**, 1274, 012009 o
- 51 CAN ACCURACY ISSUES OF LOW-COST SENSOR MEASUREMENTS BE OVERCOME WITH DATA ASSIMILATION?. **2023**, 43, o
- 50 Rapid productivity prediction method for frac hits affected wells based on gas reservoir numerical simulation and probability method. **2023**, 21, o
- 49 Observations and Models of Dynamic Topography: Current Status and Future Directions. **2023**, 223-269 o
- 48 Fusion of ocean data from multiple sources using deep learning: Utilizing sea temperature as an example. 10, o
- 47 Complete Deterministic Dynamics and Spectral Decomposition of the Linear Ensemble Kalman Inversion. **2023**, 11, 320-357 o
- 46 Analog ensemble data assimilation in a quasigeostrophic coupled model. o
- 45 A survey of feedback particle filter and related controlled interacting particle systems (CIPS). **2023**, o



44	Performance comparisons of the three data assimilation methods for improved predictability of PM2.5: Ensemble Kalman filter, ensemble square root filter, and three-dimensional variational methods. <b>2023</b> , 322, 121099	0
43	State updating in a distributed hydrological model by ensemble Kalman filtering with error estimation. <b>2023</b> , 620, 129450	0
42	Ensemble Kalman filter for GAN-ConvLSTM based long lead-time forecasting. <b>2023</b> , 69, 102024	0
41	Which filter for data assimilation in water quality models? Focus on oxygen reaeration and heterotrophic bacteria activity. <b>2023</b> , 620, 129423	0
40	A hybrid particle-stochastic map filter. <b>2023</b> , 207, 108969	0
39	Blending machine learning and sequential data assimilation over latent spaces for surrogate modeling of Boussinesq systems. <b>2023</b> , 448, 133711	0
38	Ocean data assimilation for the initialization of seasonal prediction with the Community Earth System Model. <b>2023</b> , 183, 102194	0
37	Fracture network characterization with deep generative model based stochastic inversion. <b>2023</b> , 273, 127302	0
36	Improving the Estimation of Gross Primary Productivity across Global Biomes by Modeling Light Use Efficiency through Machine Learning. <b>2023</b> , 15, 2086	0
35	Probabilistic Conditioning and Recalibration of an Event-Based Flood Forecasting Model Using Real-Time Streamflow Observations. <b>2023</b> , 28,	0
34	IMPROVING THE DATA-DRIVEN SPARSE SENSOR PLACEMENT METHOD FOR LARGE-DIMENSIONAL DYNAMICAL SYSTEMS. <b>2022</b> , 78, 1_391-1_396	0
33	EXPLORING APPROPRIATE INFLATION AND LOCALIZATION METHODS TO STABILIZE ENSEMBLE DATA ASSIMILATION OF A RAINFALL-RUNOFF-INUNDATION MODEL. <b>2022</b> , 78, 1_409-1_414	0
32	The Potential Benefits of Handling Mixture Statistics via a Bi-Gaussian EnKF: Tests With All-Sky Satellite Infrared Radiances. <b>2023</b> , 15,	0
31	Reconstruction of horizontal tidal current fields in a shallow water with model-oriented coastal acoustic tomography. 10,	0
30	Impact of hydrometeor control variables in a convective-scale 3D-EnVar data assimilation scheme.	0
29	Regulating the time of the crop model clock: A data assimilation framework for regions with high phenological heterogeneity. <b>2023</b> , 293, 108847	0
28	A deep learning-based approach to time-coordination entry guidance for multiple hypersonic vehicles. <b>2023</b> , 127, 604-626	1
27	????????????&lt;bold&gt;CO&lt;/bold&gt;&lt;sub&gt;&lt;bold&gt;2&lt;/bold&gt;&lt;/sub&gt;&lt;/bold&gt; <b>2023</b> , 53, 587-597	0

- 26 A Hybrid Embedded Discrete Fracture Model and Dual-Porosity, Dual-Permeability Workflow for Hierarchical Treatment of Fractures in Practical Field Studies. **2023**, 1-17 ○
- 25 Constraint of satellite CO<sub>2</sub> retrieval on the global carbon cycle from a Chinese atmospheric inversion system. **2023**, 66, 609-618 ○
- 24 Sequential multilevel assimilation of inverted seismic data. **2023**, 27, 265-287 ○
- 23 Impact of satellite and regional in-situ profile data assimilation on a high-resolution ocean prediction system in the Northwest Pacific. 10, ○
- 22 Probabilistic optimal interpolation for data assimilation between machine learning model predictions and real time observations. **2023**, 67, 101977 ○
- 21 An adaptive framework for real-time freeway traffic estimation in the presence of CAVs. **2023**, 149, 104066 1
- 20 Short-term planning of a work shift for open-pit mines: A case study. **2023**, 10, ○
- 19 Surrogate modeling for the climate sciences dynamics with machine learning and data assimilation. 9, ○
- 18 A FUNDAMENTAL STUDY ON ESTIMATION OF RELATIVE PERMITTIVITY DISTRIBUTION IN CONCRETE USING DATA ASSIMILATION. **2023**, 79, n/a ○
- 17 Identification of contaminant source and hydraulic conductivity field based on an ILUES-SOM surrogate model. ○
- 16 Ensemble Scenario-Based Inversion: a new approach for estimating the uncertainty of resistivity models derived from 3D Controlled Source Electromagnetic Data. ○
- 15 A theoretical analysis of one-dimensional discrete generation ensemble Kalman particle filters. **2023**, 33, ○
- 14 Water table depth assimilation in integrated terrestrial system models at the larger catchment scale. 5, ○
- 13 Impact of parameter updates on soil moisture assimilation in a 3D heterogeneous hillslope model. **2023**, 27, 1301-1323 ○
- 12 A method for generating a quasi-linear convective system suitable for observing system simulation experiments. **2023**, 16, 1779-1799 ○
- 11 A sparse matrix formulation of model-based ensemble Kalman filter. **2023**, 33, ○
- 10 Localized ensemble Kalman inversion. **2023**, 39, 064002 ○
- 9 Reducing the Geological Uncertainty by History Matching. **2023**, 43-73 ○

- 8 A Stochastic Covariance Shrinkage Approach in Ensemble Transform Kalman Filtering. **2023**, 75, 159-171 o
- 7 Structural geologic modeling and restoration using ensemble Kalman inversion. **2023**, 104868 o
- 6 Comparison of ensemble Kalman filter application to a prediction model of soil solute transfer into surface runoff by updating different parameters. o
- 5 An optimization method of adjoint assimilation based on the cumulative gradient: An application for correction of the bottom friction coefficient in the tidal wave model. **2023**, 102202 o
- 4 The limited-memory recursive variational Gaussian approximation (L-RVGA). **2023**, 33, o
- 3 Trends and variability in the Southern Annular Mode over the Common Era. **2023**, 14, o
- 2 Modeling and forecasting age-specific drug overdose mortality in the United States. o
- 1 Dust storm forecasting through coupling LOTOS-EUROS with localized ensemble Kalman filter. **2023**, 306, 119831 o