Mesoscale Variability in Denmark Strait: The PV Outflow

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Citation Report

#	Article	IF	CITATIONS
1	Eddy formation by dense flows on slopes in a rotating fluid. Journal of Fluid Mechanics, 1998, 363, 229-252.	3.4	95
2	On the baroclinic instability of axisymmetric rotating gravity currents with bottom slope. Journal of Fluid Mechanics, 2000, 408, 149-177.	3.4	14
3	Eddy Formation by Overflows in Stratified Water. Journal of Physical Oceanography, 2000, 30, 327-337.	1.7	35
4	Circulation and boundary layers in differentially heated rotating stratified fluid. Dynamics of Atmospheres and Oceans, 2000, 31, 1-21.	1.8	7
5	Experiments with density currents on a sloping bottom in a rotating fluid. Dynamics of Atmospheres and Oceans, 2000, 31, 139-164.	1.8	45
6	Baroclinic instability of density current along a sloping bottom and the associated transport process. Journal of Geophysical Research, 2001, 106, 2621-2638.	3.3	37
7	Variability of the Denmark Strait overflow: A numerical study. Journal of Geophysical Research, 2001, 106, 22277-22294.	3.3	13
8	Cyclogenesis in the Denmark Strait Overflow Plume. Journal of Physical Oceanography, 2001, 31, 3214-3229.	1.7	49
9	Instabilities of Gravity Currents along a Slope. Journal of Physical Oceanography, 2001, 31, 30-53.	1.7	8
10	Effects of Isopycnal and Diapycnal Mixing on the Stability of Oceanic Currents. Journal of Physical Oceanography, 2001, 31, 2280-2296.	1.7	39
11	The East Greenland Current and its contribution to the Denmark Strait overflow. ICES Journal of Marine Science, 2002, 59, 1133-1154.	2.5	191
12	Instability of Abyssal Currents in a Continuously Stratified Ocean with Bottom Topography. Journal of Physical Oceanography, 2002, 32, 3528-3550.	1.7	23
13	The Reddy maker. Deep-Sea Research Part I: Oceanographic Research Papers, 2002, 49, 1531-1549.	1.4	13
14	The overflows across the Ninetyeast Ridge. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 1423-1439.	1.4	15
15	Generation of cyclonic eddies in the Eastern Gotland Basin of the Baltic Sea following dense water inflows: numerical experiments. Journal of Marine Systems, 2003, 38, 323-336.	2.1	19
16	Baroclinic characteristics of frictionally destabilized abyssal overflows. Journal of Fluid Mechanics, 2003, 489, 349-379.	3.4	17
17	Hydraulic estimates of Denmark Strait overflow. Journal of Geophysical Research, 2003, 108, .	3.3	28
18	Structure and variability of the Denmark Strait Overflow: Model and observations. Journal of Geophysical Research, 2003, 108, .	3.3	90

#	Article	IF	Citations
19	The Nonlinear Evolution of Barotropically Unstable Jets. Journal of Physical Oceanography, 2003, 33, 2173-2192.	1.7	45
20	Generation of subsurface cyclonic eddies in the southeast Baltic Sea: Observations and numerical experiments. Journal of Geophysical Research, 2004, 109, .	3.3	24
21	Transport extremum through Denmark Strait. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	6
22	Rotating dense currents on a slope. Part 1. Stability. Journal of Fluid Mechanics, 2004, 508, 241-264.	3.4	16
23	Topographic and boundary effects on steady and unsteady flow through straits. Deep-Sea Research Part II: Topical Studies in Oceanography, 2004, 51, 321-334.	1.4	8
24	Local "Mean Field―Theory of Hydraulically Controlled Strait Flow. Journal of Physical Oceanography, 2004, 34, 1692-1701.	1.7	3
25	A Dense Current Flowing down a Sloping Bottom in a Rotating Fluid. Journal of Physical Oceanography, 2004, 34, 188-203.	1.7	136
26	The Influence of Topography on the Stability of Jets. Journal of Physical Oceanography, 2005, 35, 811-825.	1.7	22
27	Deep Cyclonic Circulation in the Gulf of Mexico. Journal of Physical Oceanography, 2005, 35, 1801-1812.	1.7	51
28	Tip Jets and Barrier Winds: A QuikSCAT Climatology of High Wind Speed Events around Greenland. Journal of Climate, 2005, 18, 3713-3725.	3.2	169
29	Observations of the Faroe Bank Channel overflow using bottom-following RAFOS floats. Deep-Sea Research Part II: Topical Studies in Oceanography, 2005, 52, 481-494.	1.4	15
30	An algorithm to detect isolated anomalies in three-dimensional stratified data fields with an application to density fields from four deep basins of the Baltic Sea. Journal of Geophysical Research, 2005, 110, .	3.3	13
31	Topographic influence on overflow dynamics: Idealized numerical simulations and the Faroe Bank Channel overflow. Journal of Geophysical Research, 2006, 111, .	3.3	37
32	Effects of the Earth's rotation and bottom slope on a density current descending a sloping bottom. Journal of Geophysical Research, 2006, 111 , .	3.3	7
33	The Meridional Flow of Source-Driven Abyssal Currents in a Stratified Basin with Topography. Part II: Numerical Simulation. Journal of Physical Oceanography, 2006, 36, 356-375.	1.7	10
34	Observability of the Irminger Sea circulation using variational data assimilation. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 1545-1576.	2.7	17
35	On the frictional destabilization of abyssal overflows dynamically coupled to internal gravity waves. Geophysical and Astrophysical Fluid Dynamics, 2006, 100, 1-24.	1.2	5
36	Eddy-resolving modeling of overflows. Geophysical Monograph Series, 2008, , 63-81.	0.1	18

#	Article	IF	Citations
37	Buoy observations from the windiest location in the world ocean, Cape Farewell, Greenland. Geophysical Research Letters, 2008, 35, .	4.0	44
38	The Upper-Oceanic Response to Overflows: A Mechanism for the Azores Current. Journal of Physical Oceanography, 2008, 38, 880-895.	1.7	40
39	On the stability of ocean overflows. Journal of Fluid Mechanics, 2008, 602, 241-266.	3.4	13
40	Mixing in a density-driven current flowing down a slope in a rotating fluid. Journal of Fluid Mechanics, 2008, 604, 369-388.	3.4	94
41	Structure and variability of the Filchner overflow plume. Tellus, Series A: Dynamic Meteorology and Oceanography, 2009, 61, 446-464.	1.7	35
42	Bottom water formation in the southern Weddell Sea and the influence of submarine ridges: Idealized numerical simulations. Ocean Modelling, 2009, 28, 50-59.	2.4	36
43	Numerical simulation of the Filchner overflow. Journal of Geophysical Research, 2009, 114, .	3.3	14
44	Marginal Sea Overflows and the Upper Ocean Interaction. Journal of Physical Oceanography, 2009, 39, 387-403.	1.7	15
45	Mixed bottom-friction–Kelvin–Helmholtz destabilization of source-driven abyssal overflows in the ocean. Journal of Fluid Mechanics, 2009, 626, 33-66.	3.4	5
46	Simulating transport of 129I and idealized tracers in the northern North Atlantic Ocean. Environmental Fluid Mechanics, 2010, 10, 213-233.	1.6	35
47	Entrainment in the Denmark Strait overflow plume by meso-scale eddies. Ocean Science, 2010, 6, 301-310.	3 . 4	39
48	Footprints of mesoscale eddy passages in the Strait of Otranto (Adriatic Sea). Journal of Geophysical Research, 2011, 116, .	3.3	14
49	How does the Red Sea outflow water interact with Gulf of Aden Eddies?. Ocean Modelling, 2011, 36, 133-148.	2.4	13
50	Dynamics of a dense gravity current flowing over a corrugation. Ocean Modelling, 2011, 38, 71-84.	2.4	14
51	Complexities in the climate of the subpolar North Atlantic: a case study from the winter of 2007. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 757-767.	2.7	34
52	Significant role of the North Icelandic Jet in the formation of Denmark Strait overflow water. Nature Geoscience, 2011, 4, 723-727.	12.9	99
53	Faroe Bank Channel Overflow: Mesoscale Variability*. Journal of Physical Oceanography, 2011, 41, 2137-2154.	1.7	22
54	On the Nature and Variability of the East Greenland Spill Jet: A Case Study in Summer 2003*. Journal of Physical Oceanography, 2011, 41, 2307-2327.	1.7	34

#	Article	IF	Citations
55	Overflows and convectively driven flows. , 2012, , 203-239.		12
56	Deep mesoscale eddies in the Canada Basin, Arctic Ocean. Geophysical Research Letters, 2012, 39, .	4.0	34
57	Structure of unsteady overflow in the SÅ,upsk Furrow of the Baltic Sea. Journal of Geophysical Research, 2012, 117, .	3.3	15
58	The East Greenland boundary current system south of Denmark Strait. Deep-Sea Research Part I: Oceanographic Research Papers, 2012, 63, 1-19.	1.4	33
59	Abyssal undular vortices in the Eastern Mediterranean basin. Nature Communications, 2012, 3, 834.	12.8	21
60	Mesoscale eddies in the Gulf of Aden and their impact on the spreading of Red Sea Outflow Water. Progress in Oceanography, 2012, 96, 14-39.	3.2	40
61	Revised circulation scheme north of the Denmark Strait. Deep-Sea Research Part I: Oceanographic Research Papers, 2013, 79, 20-39.	1.4	98
62	Simulation of the interannual and seasonal variability of the overflow transport through the Denmark Strait. Oceanology, 2013, 53, 643-654.	1.2	7
63	Fates and Travel Times of Denmark Strait Overflow Water in the Irminger Basin*. Journal of Physical Oceanography, 2013, 43, 2611-2628.	1.7	43
64	Baroclinic Instability of the Faroe Bank Channel Overflow*. Journal of Physical Oceanography, 2014, 44, 2698-2717.	1.7	14
65	Offshore Transport of Dense Water from the East Greenland Shelf. Journal of Physical Oceanography, 2014, 44, 229-245.	1.7	23
66	Topographic vorticity waves forced by Antarctic dense shelf water outflows. Geophysical Research Letters, 2014, 41, 1247-1254.	4.0	13
67	A Numerical Investigation of Formation and Variability of Antarctic Bottom Water off Cape Darnley, East Antarctica. Journal of Physical Oceanography, 2014, 44, 2921-2937.	1.7	28
68	Some Dynamical Constraints on Upstream Pathways of the Denmark Strait Overflow. Journal of Physical Oceanography, 2014, 44, 3033-3053.	1.7	14
69	The Dispersal of Dense Water Formed in an Idealized Coastal Polynya on a Shallow Sloping Shelf. Journal of Physical Oceanography, 2014, 44, 1563-1581.	1.7	1
70	Water column structure and statistics of Denmark Strait Overflow Water cyclones. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 84, 110-126.	1.4	30
71	The East Greenland Spill Jet as an important component of the Atlantic Meridional Overturning Circulation. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 92, 75-84.	1.4	36
72	On the origin and propagation of <scp>D</scp> enmark <scp>S</scp> trait overflow water anomalies in the <scp>I</scp> rminger <scp>B</scp> asin. Journal of Geophysical Research: Oceans, 2015, 120, 1841-1855.	2.6	33

#	Article	IF	CITATIONS
73	Hydrostatic and non-hydrostatic simulations of dense waters cascading off a shelf: The East Greenland case. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 96, 89-104.	1.4	24
74	Abyssal circulation and hydrographic conditions in the Western Ionian Sea during Spring–Summer 2007 and Autumn–Winter 2007–2008. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 104, 26-40.	1.4	6
75	Enhanced turbulence driven by mesoscale motions and flowâ€topography interaction in the <scp>D</scp> enmark <scp>S</scp> trait <scp>O</scp> verflow plume. Journal of Geophysical Research: Oceans, 2016, 121, 7650-7672.	2.6	5
76	Scales and dynamics of <scp>S</scp> ubmesoscale <scp>C</scp> oherent <scp>V</scp> ortices formed by deep convection in the northwestern <scp>M</scp> editerranean <scp>S</scp> ea. Journal of Geophysical Research: Oceans, 2016, 121, 7716-7742.	2.6	65
77	Estimates of entrainment in the Denmark Strait overflow plume from CTD/LADCP data. Oceanology, 2016, 56, 205-213.	1.2	3
78	On the hydrography of <scp>D</scp> enmark <scp>S</scp> trait. Journal of Geophysical Research: Oceans, 2017, 122, 306-321.	2.6	48
79	On the Nature of the Mesoscale Variability in Denmark Strait. Journal of Physical Oceanography, 2017, 47, 567-582.	1.7	19
80	A high-resolution modelling study of the Turkish Straits System. Ocean Dynamics, 2017, 67, 397-432.	2.2	27
81	High-Frequency Variability in the Circulation and Hydrography of the Denmark Strait Overflow from a High-Resolution Numerical Model. Journal of Physical Oceanography, 2017, 47, 2999-3013.	1.7	19
82	Potential Vorticity Dynamics of Coastal Outflows. Journal of Physical Oceanography, 2017, 47, 1021-1041.	1.7	6
83	The long-wave vorticity dynamics of rotating buoyant outflows. Journal of Fluid Mechanics, 2017, 822, 418-443.	3.4	5
84	Structure and Variability of the Shelfbreak East Greenland Current North of Denmark Strait. Journal of Physical Oceanography, 2017, 47, 2631-2646.	1.7	23
85	The GEOVIDE cruise in May–JuneÂ2014 reveals an intense Meridional Overturning Circulation over a cold and fresh subpolar North Atlantic. Biogeosciences, 2017, 14, 5323-5342.	3.3	29
86	A modelâ€based comparison of extreme winds in the Arctic and around Greenland. International Journal of Climatology, 2018, 38, 5272-5292.	3.5	22
87	Mesoscale Eddies Observed at the Denmark Strait Sill. Journal of Geophysical Research: Oceans, 2019, 124, 7947-7961.	2.6	7
88	Frontogenesis and Variability in Denmark Strait and Its Influence on Overflow Water. Journal of Physical Oceanography, 2019, 49, 1889-1904.	1.7	15
89	Subsurface Cyclonic Eddies Observed in the Southeastern Tropical Indian Ocean. Journal of Geophysical Research: Oceans, 2019, 124, 7247-7260.	2.6	9
90	Transport Variability of the Irminger Sea Deep Western Boundary Current From a Mooring Array. Journal of Geophysical Research: Oceans, 2019, 124, 3246-3278.	2.6	11

#	Article	IF	CITATIONS
91	Decadal variations of circulation in the Central Mediterranean and its interactions with mesoscale gyres. Deep-Sea Research Part II: Topical Studies in Oceanography, 2019, 164, 14-24.	1.4	37
92	Variability and Mixing of the Filchner Overflow Plume on the Continental Slope, Weddell Sea. Journal of Physical Oceanography, 2019, 49, 3-20.	1.7	8
93	Hydrodynamics of the Bottom-Water Flow from the Arctic to the Atlantic through the Strait of Denmark. Izvestiya - Atmospheric and Oceanic Physics, 2020, 56, 479-487.	0.9	4
94	Instabilities and vertical mixing in river plumes: application to the Bay of Biscay. Geophysical and Astrophysical Fluid Dynamics, 2020, 114, 650-689.	1.2	7
95	Evolution of Denmark Strait Overflow Cyclones and Their Relationship to Overflow Surges. Geophysical Research Letters, 2020, 47, e2019GL086759.	4.0	10
96	Cyclonic eddies in the West Greenland Boundary Current System. Journal of Physical Oceanography, 2021, , .	1.7	3
98	Impact of dense-water flow over a sloping bottom on open-sea circulation: laboratory experiments and an Ionian Sea (Mediterranean) example. Ocean Science, 2021, 17, 975-996.	3.4	11
99	Observed Deep Cyclonic Eddies around Southern Greenland. Journal of Physical Oceanography, 2021, ,	1.7	3
100	Intruding gravity currents and re-circulation in a rotating frame: Laboratory experiments. Physics of Fluids, 2021, 33, .	4.0	8
101	The Overflow Flux West of Iceland: Variability, Origins and Forcing. , 2008, , 443-474.		42
102	Transformation and Fate of Overflows in the Northern North Atlantic., 2008,, 505-526.		27
103	Kinematic Structure and Dynamics of the Denmark Strait Overflow from Ship-Based Observations. Journal of Physical Oceanography, 2020, 50, 3235-3251.	1.7	9
105	Stability properties of a barotropic surface-water jet observed in the Denmark Strait. Tellus, Series A: Dynamic Meteorology and Oceanography, 1999, 51, 979-989.	1.7	8
106	Structure and variability of the Filchner overflow plume. Tellus, Series A: Dynamic Meteorology and Oceanography, 2009, , .	1.7	3
109	Finite amplitude evolution of frictionally destabilized abyssal overflows in a stratified ocean. WIT Transactions on Engineering Sciences, 2006, , .	0.0	0
110	Theoretical descriptions and modeling of the Arctic Mediterranean Sea. , 2022, , 379-432.		0
111	Meanders of the West Greenland Current near Cape Farewell. Deep-Sea Research Part I: Oceanographic Research Papers, 2022, 179, 103664.	1.4	4
112	Formation of an Intrathermocline Eddy Triggered by the Coastalâ€Trapped Wave in the Northern Bay of Bengal. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017725.	2.6	6

#	Article	IF	CITATIONS
115	Coupled Ocean–Sea Ice Dynamics of the Antarctic Slope Current Driven by Topographic Eddy Suppression and Sea Ice Momentum Redistribution. Journal of Physical Oceanography, 2022, 52, 1563-1589.	1.7	5
116	Topographic Rossby Waveâ€Modulated Oscillations of Dense Overflows. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	1
117	Deep ocean circulation in the subpolar North Atlantic observed by acoustically-tracked floats. Progress in Oceanography, 2023, 211, 102975.	3.2	2
118	Mechanisms of Heat Flux Across the Southern Greenland Continental Shelf in 1/10° and 1/12° Ocean/Sea Ice Simulations. Journal of Geophysical Research: Oceans, 2023, 128, .	2.6	1
119	Subthermocline eddies carrying the Indonesian Throughflow water observed in the southeastern tropical Indian Ocean. Acta Oceanologica Sinica, 2023, 42, 1-13.	1.0	2
120	Bulges at vortical outflows. Physica D: Nonlinear Phenomena, 2023, 454, 133867.	2.8	1
121	Tidallyâ€Modulated Turbidity and Density Fluctuations in a Rotationallyâ€Modified Gravity Current. Journal of Geophysical Research: Oceans, 2023, 128, .	2.6	0