# Machiel Bos

## List of Publications by Year in descending order



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|---|---|---|---|
| 43 papers | 1,808 citations | 361413 20 h-index | 289244 40 g-index |
| 47 all docs | 47 docs citations | 47 times ranked | 1409 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Limitations in Oneâ€Dimensional (an)Elastic Earth Models for Explaining GPSâ€Observed M<sub>2</sub> Ocean Tide Loading Displacements in New Zealand. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021992. | 3.4 | 6 |
| 2 | Modelling the GNSS Time Series: Different Approaches to Extract Seasonal Signals. Springer Geophysics, 2020, , 211-237. | 0.9 | 7 |
| 3 | Asthenospheric anelasticity effects on ocean tide loading around the East China Sea observed with GPS. Solid Earth, 2020, 11, 185-197. | 2.8 | 16 |
| 4 | Annual sea level variations in the Red Sea observed using GNSS. Geophysical Journal International, 2020, 221, 826-834. | 2.4 | 8 |
| 5 | Introduction to Geodetic Time Series Analysis. Springer Geophysics, 2020, , 29-52. | 0.9 | 12 |
| 6 | Filtering of GPS Time Series Using Geophysical Models and Common Mode Error Analysis. Springer Geophysics, 2020, , 261-278. | 0.9 | 3 |
| 7 | Estimation of the Vertical Land Motion from GNSS Time Series and Application in Quantifying Sea-Level Rise. Springer Geophysics, 2020, , 317-344. | 0.9 | 1 |
| 8 | Conclusions and Future Challenges in Geodetic Time Series Analysis. Springer Geophysics, 2020, , 419-422. | 0.9 | 0 |
| 9 | Noise-Dependent Adaption of the Wiener Filter for the GPS Position Time Series. Mathematical Geosciences, 2019, 51, 53-73. | 2.4 | 21 |
| 10 | Introducing a vertical land motion model for improving estimates of sea level rates derived from tide gauge records affected by earthquakes. GPS Solutions, 2019, 23, 1. | 4.3 | 21 |
| 11 | Investigation of the noise properties at low frequencies in long GNSS time series. Journal of Geodesy, 2019, 93, 1271-1282. | 3.6 | 58 |
| 12 | Estimates of Vertical Velocity Errors for IGS ITRF2014 Stations by Applying the Improved Singular Spectrum Analysis Method and Environmental Loading Models. Pure and Applied Geophysics, 2018, 175, 1823-1840. | 1.9 | 25 |
| 13 | Seaâ€Level Trend Uncertainty With Pacific Climatic Variability and Temporallyâ€Correlated Noise. Journal of Geophysical Research: Oceans, 2018, 123, 1978-1993. | 2.6 | 34 |
| 14 | Detecting time-varying seasonal signal in GPS position time series with different noise levels. GPS Solutions, 2018, 22, 1. | 4.3 | 46 |
| 15 | Review of current GPS methodologies for producing accurate time series and their error sources. Journal of Geodynamics, 2017, 106, 12-29. | 1.6 | 94 |
| 16 | Angular velocity of Arabian plate from multi-year analysis of GNSS data. Arabian Journal of Geosciences, 2016, 9, 1. | 1.3 | 9 |
| 17 | Ocean tide loading displacements in western Europe: 2. GPSâ€observed anelastic dispersion in the asthenosphere. Journal of Geophysical Research: Solid Earth, 2015, 120, 6540-6557. | 3.4 | 52 |
| 18 | Ocean tide loading displacements in western Europe: 1. Validation of kinematic GPS estimates. Journal of Geophysical Research: Solid Earth, 2015, 120, 6523-6539. | 3.4 | 44 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A Comparison Between Three IMUs for Strapdown Airborne Gravimetry. Surveys in Geophysics, 2015, 36, 571-586. | 4.6 | 12 |
| 20 | Sea level rise in the north-western part of the Arabian Gulf. Journal of Geodynamics, 2014, 81, 105-110. | 1.6 | 38 |
| 21 | The effect of temporal correlated noise on the sea level rate and acceleration uncertainty. Geophysical Journal International, 2014, 196, 1423-1430. | 2.4 | 87 |
| 22 | Fast error analysis of continuous GNSS observations with missing data. Journal of Geodesy, 2013, 87, 351-360. | 3.6 | 286 |
| 23 | Detecting offsets in GPS time series: First results from the detection of offsets in GPS experiment. Journal of Geophysical Research: Solid Earth, 2013, 118, 2397-2407. | 3.4 | 133 |
| 24 | Analysing the 100year sea level record of LeixÃµes, Portugal. Journal of Hydrology, 2013, 481, 76-84. | 5.4 | 14 |
| 25 | Computation of Greenâ€™s Functions for Ocean Tide Loading. , 2013, , 1-52. | | 12 |
| 26 | On the Use of UAVs for Strapdown Airborne Gravimetry. International Association of Geodesy Symposia, 2012, , 255-261. | 0.4 | 7 |
| 27 | Three months of local sea level derived from reflected GNSS signals. Radio Science, 2011, 46, . | 1.6 | 56 |
| 28 | Verifying the body tide at the Canary Islands using tidal gravimetry observations. Journal of Geodynamics, 2011, 51, 358-365. | 1.6 | 11 |
| 29 | Lunar tides in Loch Ness, Scotland. Journal of Geophysical Research, 2011, 116, . | 3.3 | 10 |
| 30 | Improved Constraints on Models of Glacial Isostatic Adjustment: A Review of the Contribution of Ground-Based Geodetic Observations. Surveys in Geophysics, 2010, 31, 465-507. | 4.6 | 97 |
| 31 | Comment on â€œAnomalous ocean load tide signal observed in lakeâ€level variations in Tierra del Fuegoâ€• by A. Richter et al.. Geophysical Research Letters, 2010, 37, . | 4.0 | 4 |
| 32 | Deformation and Tectonics: Contribution of GPS Measurements to Plate Tectonics â€“ Overview and Recent Developments. , 2010, , 155-184. | | 7 |
| 33 | The influence of seasonal signals on the estimation of the tectonic motion in short continuous GPS time-series. Journal of Geodynamics, 2010, 49, 205-209. | 1.6 | 82 |
| 34 | Fast error analysis of continuous GPS observations. Journal of Geodesy, 2008, 82, 157-166. | 3.6 | 141 |
| 35 | Assessing the accuracy of predicted ocean tide loading displacement values. Journal of Geodesy, 2008, 82, 893-907. | 3.6 | 58 |
| 36 | Sensitivity analysis of the gravity geoid estimation: A case study on the Azores plateau. Physics of the Earth and Planetary Interiors, 2008, 168, 113-124. | 1.9 | 4 |

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|---|---|---|---|
| 37 | On the importance of proper noise modelling for long-term precipitable water vapour trend estimations. South African Journal of Geology, 2007, 110, 211-218. | 1.2 | 6 |
| 38 | Surface velocity field of the Ibero-Maghrebian segment of the Eurasia-Nubia plate boundary. Geophysical Journal International, 2007, 169, 315-324. | 2.4 | 70 |
| 39 | An estimate of the errors in gravity ocean tide loading computations. Journal of Geodesy, 2005, 79, 50-63. | 3.6 | 60 |
| 40 | Validating Earth and ocean tide models using tidal gravity measurements. Geophysical Journal International, 2003, 152, 468-485. | 2.4 | 106 |
| 41 | Testing ocean tide models in the Nordic seas with tidal gravity observations. Geophysical Journal International, 2002, 150, 687-694. | 2.4 | 25 |
| 42 | Long-period lunar Earth tides at the geographic South Pole and recent models of ocean tides. Geophysical Journal International, 2000, 143, 490-494. | 2.4 | 13 |
| 43 | Tidal tilt observations in the Netherlands using shallow borehole tiltmeters. Physics and Chemistry of the Earth, 2000, 25, 415-420. | 0.6 | 10 |