Ole Baltazar Andersen

List of Publications by Year in descending order

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150 papers 5,123 citations

36 h-index 65 g-index

182 all docs

182 docs citations

times ranked

182

4016 citing authors

#	Article	IF	CITATIONS
1	River levels from multi mission altimetry, a statistical approach. Remote Sensing of Environment, 2022, 270, 112876.	11.0	12
2	Components of 21Âyears (1995–2015) of absolute sea level trends in the Arctic. Ocean Science, 2022, 18, 109-127.	3.4	2
3	Global sea-level budget and ocean-mass budget, with a focus on advanced data products and uncertainty characterisation. Earth System Science Data, 2022, 14, 411-447.	9.9	30
4	Spectrally Consistent Mean Dynamic Topography by Combining Mean Sea Surface and Global Geopotential Model Through a Least Squares-Based Approach. Frontiers in Earth Science, 2022, 10, .	1.8	1
5	Consolidating ICESat-2 Ocean Wave Characteristics with CryoSat-2 during the CRYO2ICE Campaign. Remote Sensing, 2022, 14, 1300.	4.0	4
6	SAR Ship–Iceberg Discrimination in Arctic Conditions Using Deep Learning. Remote Sensing, 2022, 14, 2236.	4.0	11
7	Mean sea surface and mean dynamic topography determination from Cryosat-2 data around Australia. Advances in Space Research, 2021, 68, 1073-1089.	2.6	4
8	Consolidating sea level acceleration estimates from satellite altimetry. Advances in Space Research, 2021, 68, 496-503.	2.6	30
9	A coastal mean sea surface with associated errors in Norway based on new-generation altimetry. Advances in Space Research, 2021, 68, 1103-1115.	2.6	8
10	Contributions to Arctic sea level from 2003 to 2015. Advances in Space Research, 2021, 68, 703-710.	2.6	5
11	Coastal marine gravity modelling from satellite altimetry – case study in the Mediterranean. Journal of Geodetic Science, 2021, 11, 29-37.	1.0	2
12	The Unique Role of the Jason Geodetic Missions for high Resolution Gravity Field and Mean Sea Surface Modelling. Remote Sensing, 2021, 13, 646.	4.0	13
13	Absolute Baltic Sea Level Trends in the Satellite Altimetry Era: A Revisit. Frontiers in Marine Science, 2021, 8, .	2.5	27
14	Comparison and evaluation of high-resolution marine gravity recovery via sea surface heights or sea surface slopes. Journal of Geodesy, 2021, 95, 1.	3.6	11
15	Altimetry for the future: Building on 25 years of progress. Advances in Space Research, 2021, 68, 319-363.	2.6	119
16	Refinement of Mean Dynamic Topography Over Island Areas Using Airborne Gravimetry and Satellite Altimetry Data in the Northwestern South China Sea. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021805.	3.4	6
17	Evaluation of a Statistical Approach for Extracting Shallow Water Bathymetry Signals from ICESat-2 ATL03 Photon Data. Remote Sensing, 2021, 13, 3548.	4.0	30
18	Gravity recovery from SWOT altimetry using geoid height and geoid gradient. Remote Sensing of Environment, 2021, 265, 112650.	11.0	18

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19	GNSS-IR Measurements of Inter Annual Sea Level Variations in Thule, Greenland from 2008–2019. Remote Sensing, 2021, 13, 5077.	4.0	4
20	Evaluation of Sentinel-3 SRAL SAR altimetry over Chinese rivers. Remote Sensing of Environment, 2020, 237, 111546.	11.0	57
21	Cretaceous ocean formation in the High Arctic. Earth and Planetary Science Letters, 2020, 551, 116552.	4.4	12
22	Vertical Land Motion From Presentâ€Day Deglaciation in the Wider Arctic. Geophysical Research Letters, 2020, 47, e2020GL088144.	4.0	10
23	A Bigger Picture of how the Tibetan Lakes Have Changed Over the Past Decade Revealed by CryoSatâ€2 Altimetry. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033161.	3.3	20
24	Arctic Sea Level Budget Assessment during the GRACE/Argo Time Period. Remote Sensing, 2020, 12, 2837.	4.0	11
25	On the Performance of Sentinelâ€3 Altimetry Over New Reservoirs: Approaches to Determine Onboard A Priori Elevation. Geophysical Research Letters, 2020, 47, e2020GL088770.	4.0	19
26	Validation of Sentinel-3A Based Lake Level over US and Canada. Remote Sensing, 2020, 12, 2835.	4.0	16
27	Inversion and Validation of Improved Marine Gravity Field Recovery in South China Sea by Incorporating HY-2A Altimeter Waveform Data. Remote Sensing, 2020, 12, 802.	4.0	15
28	Marine gravity anomaly mapping for the Gulf of Tonkin area (Vietnam) using Cryosat-2 and Saral/AltiKa satellite altimetry data. Advances in Space Research, 2020, 66, 505-519.	2.6	16
29	The Copernicus Polar Ice and Snow Topography Altimeter (CRISTAL) high-priority candidate mission. Cryosphere, 2020, 14, 2235-2251.	3.9	48
30	Arctic Freshwater Fluxes from Earth Observation Data. International Association of Geodesy Symposia, 2019, , 97-103.	0.4	1
31	Improved Arctic Ocean Bathymetry Derived From DTU17 Gravity Model. Earth and Space Science, 2019, 6, 1336-1347.	2.6	14
32	Arctic Ocean Sea Level Record from the Complete Radar Altimetry Era: 1991–2018. Remote Sensing, 2019, 11, 1672.	4.0	37
33	An Attempt to Observe Vertical Land Motion along the Norwegian Coast by CryoSat-2 and Tide Gauges. Remote Sensing, 2019, 11, 744.	4.0	9
34	Sea Level Variation around Australia and Its Relation to Climate Indices. Marine Geodesy, 2019, 42, 469-489.	2.0	5
35	UoNGBR: A Regional Assimilation Barotropic Tidal Model for the Great Barrier Reef and Coral Sea Based on Satellite, Coastal and Marine Data. Remote Sensing, 2019, 11, 2234.	4.0	2
36	Assessment of the Accuracy of Recent Empirical and Assimilated Tidal Models for the Great Barrier Reef, Australia, Using Satellite and Coastal Data. Remote Sensing, 2019, 11, 1211.	4.0	18

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37	Retrieving Sea Level and Freeboard in the Arctic: A Review of Current Radar Altimetry Methodologies and Future Perspectives. Remote Sensing, 2019, 11, 881.	4.0	40
38	Influence of local geoid variation on water surface elevation estimates derived from multi-mission altimetry for Lake Namco. Remote Sensing of Environment, 2019, 221, 65-79.	11.0	31
39	Arctide2017, a high-resolution regional tidal model in the Arctic Ocean. Advances in Space Research, 2018, 62, 1324-1343.	2.6	17
40	ALES+: Adapting a homogenous ocean retracker for satellite altimetry to sea ice leads, coastal and inland waters. Remote Sensing of Environment, 2018, 211, 456-471.	11.0	57
41	Quantifying Atlantic Water transport to the Nordic Seas by remote sensing. Remote Sensing of Environment, 2018, 216, 758-769.	11.0	17
42	Coastal sea level from CryoSat-2 SARIn altimetry in Norway. Advances in Space Research, 2018, 62, 1344-1357.	2.6	19
43	Global and Regional Evaluation of the First Year of Sentinel-3. International Association of Geodesy Symposia, 2018, , 89-96.	0.4	1
44	Improving the Coastal Mean Dynamic Topography by Geodetic Combination of Tide Gauge and Satellite Altimetry. Marine Geodesy, 2018, 41, 517-545.	2.0	23
45	An improved and homogeneous altimeter sea level record from the ESA Climate Change Initiative. Earth System Science Data, 2018, 10, 281-301.	9.9	157
46	Monitoring recent lake level variations on the Tibetan Plateau using CryoSat-2 SARIn mode data. Journal of Hydrology, 2017, 544, 109-124.	5.4	130
47	CryoSat-2 radar altimetry for monitoring freshwater resources of China. Remote Sensing of Environment, 2017, 200, 125-139.	11.0	47
48	Arctic Sea Level During the Satellite Altimetry Era. Surveys in Geophysics, 2017, 38, 251-275.	4.6	20
49	An Assessment of Stateâ€ofâ€theâ€Art Mean Sea Surface and Geoid Models of the Arctic Ocean: Implications for Sea Ice Freeboard Retrieval. Journal of Geophysical Research: Oceans, 2017, 122, 8593-8613.	2.6	24
50	CryoSat-2 Altimetry Applications over Rivers and Lakes. Water (Switzerland), 2017, 9, 211.	2.7	48
51	The Performance and Potentials of the CryoSat-2 SAR and SARIn Modes for Lake Level Estimation. Water (Switzerland), 2017, 9, 374.	2.7	20
52	The coastal mean dynamic topography in Norway observed by CryoSatâ€⊋ and GOCE. Geophysical Research Letters, 2017, 44, 5609-5617.	4.0	24
53	River Levels Derived with CryoSat-2 SAR Data Classification—A Case Study in the Mekong River Basin. Remote Sensing, 2017, 9, 1238.	4.0	17
54	A new phase in the production of quality-controlled sea level data. Earth System Science Data, 2017, 9, 557-572.	9.9	56

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55	Recent Arctic Sea Level Variations from Satellites. Frontiers in Marine Science, 2016, 3, .	2.5	19
56	Comparison of Satellite Altimetric Gravity and Ship-borne Gravity - Offshore Western Australia. ASEG Extended Abstracts, 2016, 2016, 1-5.	0.1	8
57	Improved inland water levels from SAR altimetry using novel empirical and physical retrackers. Journal of Hydrology, 2016, 537, 234-247.	5. 4	60
58	Stable reconstruction of Arctic sea level for the 1950–2010 period. Journal of Geophysical Research: Oceans, 2016, 121, 5697-5710.	2.6	5
59	GEROS-ISS: GNSS REflectometry, Radio Occultation, and Scatterometry Onboard the International Space Station. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4552-4581.	4.9	99
60	Innovative sea surface monitoring with GNSS-REflectometry aboard ISS: Overview and recent results from GEROS-ISS. , 2016 , , .		1
61	Improving Surface Geostrophic Current from a GOCE-Derived Mean Dynamic Topography Using Edge-Enhancing Diffusion Filtering. Pure and Applied Geophysics, 2016, 173, 871-884.	1.9	8
62	Coastal sea level from inland CryoSatâ€2 interferometric SAR altimetry. Geophysical Research Letters, 2015, 42, 1841-1847.	4.0	28
63	Improved sea level record over the satellite altimetry era (1993–2010) from the Climate Change Initiative project. Ocean Science, 2015, 11, 67-82.	3.4	205
64	Validation of CryoSat-2 SAR mode based lake levels. Remote Sensing of Environment, 2015, 171, 162-170.	11.0	69
65	An Improved 20-Year Arctic Ocean Altimetric Sea Level Data Record. Marine Geodesy, 2015, 38, 146-162.	2.0	26
66	The Impact of Using Jason-1 and Cryosat-2 Geodetic Mission Altimetry for Gravity Field Modeling. International Association of Geodesy Symposia, 2015, , 205-210.	0.4	5
67	Statistical selection of tide gauges for Arctic sea-level reconstruction. Advances in Space Research, 2015, 55, 2305-2314.	2.6	2
68	CryoSat-2 altimetry for river level monitoring â€" Evaluation in the Gangesâ€"Brahmaputra River basin. Remote Sensing of Environment, 2015, 168, 80-89.	11.0	60
69	Observing and Modelling the High Water Level from Satellite Radar Altimetry During Tropical Cyclones. International Association of Geodesy Symposia, 2015, , 491-500.	0.4	1
70	Sea surface height determination in the Arctic using Cryosat-2 SAR data from primary peak empirical retrackers. Advances in Space Research, 2015, 55, 40-50.	2.6	46
71	Annual cycle in lakes and rivers from CryoSat-2 altimetry — The Brahmaputra river. , 2014, , .		2
72	Evaluation of SAMOSA3 adapted retracker using Cryosat-2 SAR altimetry data over the Arctic ocean. , 2014, , .		4

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73	Multimodel simulations of Arctic Ocean sea surface height variability in the period 1970–2009. Journal of Geophysical Research: Oceans, 2014, 119, 8936-8954.	2.6	24
74	Multimission satellite altimetric data validation in the Baltic Sea. , 2014, , .		1
7 5	HY-2A satellite altimetric data evaluation in the Arctic ocean. , 2014, , .		2
76	Marine gravity field for oil and mineral exploration & amp; \pm x2014; Improvements in the Arctic from CryoSat-2 SAR altimetry., 2014,,.		2
77	Accuracy assessment of global barotropic ocean tide models. Reviews of Geophysics, 2014, 52, 243-282.	23.0	338
78	Toward Improved Estimation of the Dynamic Topography and Ocean Circulation in the High Latitude and Arctic Ocean: The Importance of GOCE. Surveys in Geophysics, 2014, 35, 661-679.	4.6	22
79	Errors of Mean Dynamic Topography and Geostrophic Current Estimates in China's Marginal Seas from GOCE and Satellite Altimetry. Journal of Atmospheric and Oceanic Technology, 2014, 31, 2544-2555.	1.3	10
80	Sea-level trend in the South China Sea observed from 20 years of along-track satellite altimetric data. International Journal of Remote Sensing, 2014, 35, 4329-4339.	2.9	10
81	The importance of coastal altimetry retracking and detiding: a case study around the Great Barrier Reef, Australia. International Journal of Remote Sensing, 2014, 35, 1729-1740.	2.9	24
82	Impacts of altimeter corrections on local linear sea level trends around Taiwan. International Journal of Remote Sensing, 2013, 34, 6738-6748.	2.9	6
83	Estimates of vertical land motion along the southwestern coasts of Turkey from coastal altimetry and tide gauge data. Advances in Space Research, 2013, 51, 1572-1580.	2.6	16
84	Altimetry, bathymetry and geoid variations at the Gavdos permanent Cal/Val facility. Advances in Space Research, 2013, 51, 1418-1437.	2.6	12
85	Long term changes of altimeter range and geophysical corrections at altimetry calibration sites. Advances in Space Research, 2013, 51, 1468-1477.	2.6	10
86	Marine Gravity and Geoid from Satellite Altimetry. Lecture Notes in Earth System Sciences, 2013, , $401-451$.	0.6	21
87	Acceleration of the Greenland ice sheet mass loss as observed by GRACE: Confidence and sensitivity. Earth and Planetary Science Letters, 2013, 364, 24-29.	4.4	15
88	The Arctic marine gravity field - A new era with Cryosat-2 SAR altimetry. , 2012, , .		0
89	Integrating Non-Tidal Sea Level data from altimetry and tide gauges for coastal sea level prediction. Advances in Space Research, 2012, 50, 1099-1106.	2.6	16
90	Preliminary gravity recovery from CryoSat-2 data in the Baffin Bay. Advances in Space Research, 2012, 50, 1158-1163.	2.6	25

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91	Galathea-3: A Global Marine Gravity Profile. International Association of Geodesy Symposia, 2012, , 365-371.	0.4	O
92	Greenland inland ice melt-off: Analysis of global gravity data from the GRACE satellites. , $2011, \ldots$		0
93	An initial estimate of the North Atlantic steady-state geostrophic circulation from GOCE. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	70
94	Using timeâ€lapse gravity for groundwater model calibration: An application to alluvial aquifer storage. Water Resources Research, 2011, 47, .	4.2	49
95	Multimission empirical ocean tide modeling for shallow waters and polar seas. Journal of Geophysical Research, 2011, 116, .	3.3	96
96	Calibrating Vadose Zone Models with Timeâ€Lapse Gravity Data. Vadose Zone Journal, 2011, 10, 1034-1044.	2.2	16
97	Measuring gravity change caused by water storage variations: Performance assessment under controlled conditions. Journal of Hydrology, 2011, 402, 60-70.	5.4	29
98	SAR observation and model tracking of an oil spill event in coastal waters. Marine Pollution Bulletin, 2011, 62, 350-363.	5.0	136
99	Black sea annual and inter-annual water mass variations from space. Journal of Geodesy, 2011, 85, 119-127.	3. 6	4
100	A global mean dynamic topography and ocean circulation estimation using a preliminary GOCE gravity model. Journal of Geodesy, 2011, 85, 861-879.	3.6	110
101	Range and Geophysical Corrections in Coastal Regions: And Implications for Mean Sea Surface Determination., 2011,, 103-145.		79
102	The DNSC08GRA global marine gravity field from double retracked satellite altimetry. Journal of Geodesy, 2010, 84, 191-199.	3.6	257
103	Evaluating terrestrial water storage variations from regionally constrained GRACE mascon data and hydrological models over Southern Africa – preliminary results. International Journal of Remote Sensing, 2010, 31, 3899-3912.	2.9	9
104	Recent developments in high-resolution global altimetric gravity field modeling. The Leading Edge, 2010, 29, 540-545.	0.7	10
105	Evaluation of Ocean Tide Models Used for Jason-2 Altimetry Corrections. Marine Geodesy, 2010, 33, 285-303.	2.0	20
106	Ocean Dynamic Topography from GPS – Galathea-3 First Results. International Association of Geodesy Symposia, 2010, , 239-245.	0.4	3
107	Terrestrial Water Storage from GRACE and Satellite Altimetry in the Okavango Delta (Botswana). International Association of Geodesy Symposia, 2010, , 521-526.	0.4	2
108	Calculation of the temporal gravity variation from spatially variable water storage change in soils and aquifers. Journal of Hydrology, 2009, 365, 302-309.	5.4	63

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109	Trend patterns in global sea surface temperature. International Journal of Climatology, 2009, 29, 2049-2055.	3.5	27
110	DNSC08 mean sea surface and mean dynamic topography models. Journal of Geophysical Research, 2009, 114, .	3.3	232
111	Satellite Altimetry and GRACE Gravimetry for Studies of Annual Water Storage Variations in Bangladesh. Terrestrial, Atmospheric and Oceanic Sciences, 2008, 19, 47.	0.6	14
112	The DNSC07 high resolution global marine gravity field. , 2008, , .		1
113	Combining altimetric/gravimetric and ocean model mean dynamic topography models in the GOCINA region., 2007,, 3-10.		7
114	Seasonal changes in the European gravity field from GRACE: A comparison with superconducting gravimeters and hydrology model predictions. Journal of Geodynamics, 2006, 41, 59-68.	1.6	47
115	Mapping nonlinear shallow-water tides: a look at the past and future. Ocean Dynamics, 2006, 56, 416-429.	2.2	35
116	Surface Ice Flow Velocity and Tide Retrieval of the Amery Ice Shelf using Precise Point Positioning. Journal of Geodesy, 2006, 80, 171-176.	3.6	54
117	Initial results from retracking and reprocessing the ERS-1 geodetic mission altimetry for gravity field purposes. International Association of Geodesy Symposia, 2005, , 1-5.	0.4	2
118	Improved High Resolution Altimetric Gravity Field Mapping (KMS2002 Global Marine Gravity Field). International Association of Geodesy Symposia, 2005, , 326-331.	0.4	18
119	Seasonal Gravity Field Variations from GRACE and Hydrological Models. , 2005, , 316-321.		2
120	Global inter-annual gravity changes from GRACE: Early results. Geophysical Research Letters, 2005, 32,	4.0	59
121	GRACE-derived terrestrial water storage depletion associated with the 2003 European heat wave. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	136
122	Classification of the Australian continental shelf based on predicted sediment threshold exceedance from tidal currents and swell waves. Marine Geology, 2004, 211, 1-20.	2.1	109
123	Improved description of sea level in the North Sea. Journal of Geophysical Research, 2003, 108, .	3.3	15
124	The M4 Shallow Water Tidal Constituent From Altimetry and Tide Gauges. International Association of Geodesy Symposia, 2003, , 231-235.	0.4	0
125	AN ACE-BASED NONLINEAR EXTENSION TO TRADITIONAL EMPIRICAL ORTHOGONAL FUNCTION ANALYSIS. , 2002, , .		3
126	A BIVARIATE EXTENSION TO TRADITIONAL EMPIRICAL ORTHOGONAL FUNCTION ANALYSIS. , 2002, , .		2

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127	Deep ocean currents detected with satellite altimetry. Canadian Journal of Remote Sensing, 2002, 28, 556-566.	2.4	3
128	Correcting GRACE gravity fields for ocean tide effects. Geophysical Research Letters, 2002, 29, 19-1-19-4.	4.0	38
129	A change oriented extension of EOF analysis applied to the 1996–1997 AVHRR sea surface temperature data. Physics and Chemistry of the Earth, 2002, 27, 1379-1386.	2.9	16
130	Monitoring sea level and sea surface temperature trends from ERS satellites. Physics and Chemistry of the Earth, 2002, 27, 1413-1417.	2.9	13
131	Title is missing!. Studia Geophysica Et Geodaetica, 2002, 46, 387-394.	0.5	11
132	Spatial Correlation Between Regional Long-Term Changes in sea Level and sea Surface Temperature. International Association of Geodesy Symposia, 2002, , 551-555.	0.4	0
133	Seasonal variation in the main tidal constituent from altimetry. Geophysical Research Letters, 2001, 28, 567-570.	4.0	30
134	Foreword Avantpropos. Journal of Geodesy, 2000, 74, 1-1.	3 . 6	1
135	The role of satellite altimetry in gravity field modelling in coastal areas. Physics and Chemistry of the Earth, 2000, 25, 17-24.	0.6	49
136	Seasonal tide variations from tide gauges and altimetry. Physics and Chemistry of the Earth, 1999, 24, 403-406.	0.6	4
137	Shallow water tides in the northwest European shelf region from TOPEX/POSEIDON altimetry. Journal of Geophysical Research, 1999, 104, 7729-7741.	3.3	85
138	Global marine gravity field from the ERS-1 and Geosat geodetic mission altimetry. Journal of Geophysical Research, 1998, 103, 8129-8137.	3.3	205
139	Global Marine Gravity and Mean Sea Surface from Multi Mission Satellite Altimetry. International Association of Geodesy Symposia, 1998, , 132-137.	0.4	3
140	Multi-satellite ocean tide modellingâ€"the K1 constituent. Progress in Oceanography, 1997, 40, 197-216.	3.2	15
141	Errors in recent ocean tide models: possible origin and cause. Progress in Oceanography, 1997, 40, 325-336.	3.2	9
142	Improved Recovery of the Global Marine Gravity Field from the GEOSAT and the ERS-1 Geodetic Mission Altimetry. International Association of Geodesy Symposia, 1997, , 429-436.	0.4	6
143	ATSR sea surface temperature data in a global analysis with TOPEX/POSEIDON altimetry. Geophysical Research Letters, 1996, 23, 821-824.	4.0	15
144	Application of inversion to global ocean tide mapping. Lecture Notes in Earth Sciences, 1996, , 239-246.	0.5	1

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145	Global ocean tides from ERS 1 and TOPEX/POSEIDON altimetry. Journal of Geophysical Research, 1995, 100, 25249.	3.3	88
146	Intercomparison of recent ocean tide models. Journal of Geophysical Research, 1995, 100, 25261.	3.3	124
147	ERS-1 altimetry on the Greenland Ice Sheet: Preliminary investigations of annual variations. Geophysical Research Letters, 1994, 21, 1655-1658.	4.0	4
148	Ocean tides in the northern North Atlantic and adjacent seas from ERS 1 altimetry. Journal of Geophysical Research, 1994, 99, 22557.	3.3	37
149	Altimetric gravity anomalies in the Norwegianâ€Greenland Sea ―Preliminary results from the ERSâ€1 35 days repeat mission. Geophysical Research Letters, 1992, 19, 1795-1798.	4.0	26
150	Using satellite altimetry and tide gauges for storm surge warning. Proceedings of the International Association of Hydrological Sciences, 0, 365, 28-34.	1.0	1