



ILMATIETEEN LAITOS
METEOROLOGISKA INSTITUTET
FINNISH METEOROLOGICAL INSTITUTE

Sea level

Observations & forecasts in Finland
BSCD2000 change

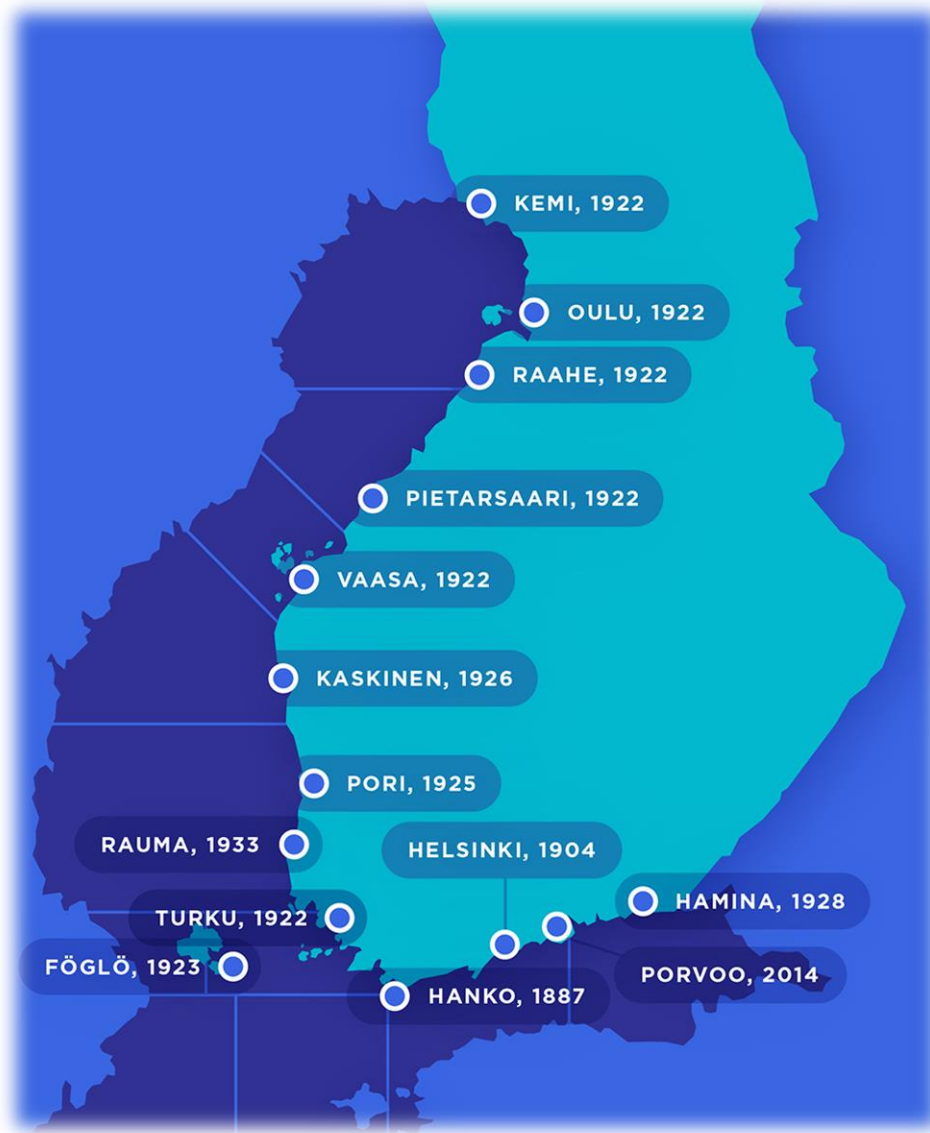
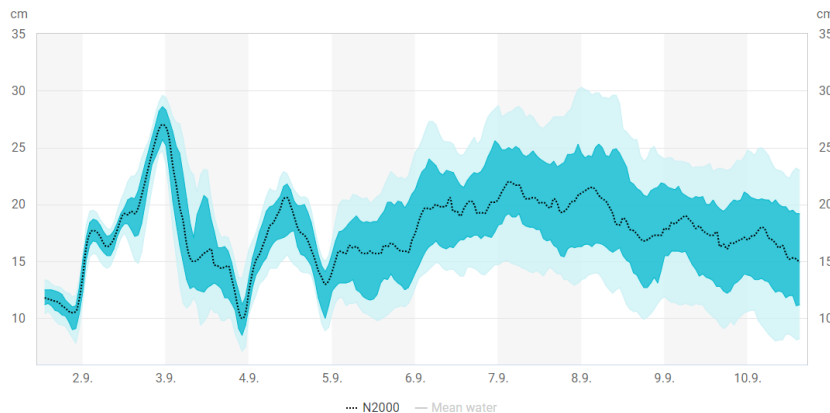
7.9.2021

Oceanographic Services



Finnish Mareographs

- 14 in total
 - Oldest Hanko since 1887
 - Latest Porvoo since 2014
- Owner: Finnish Meteorological Institute



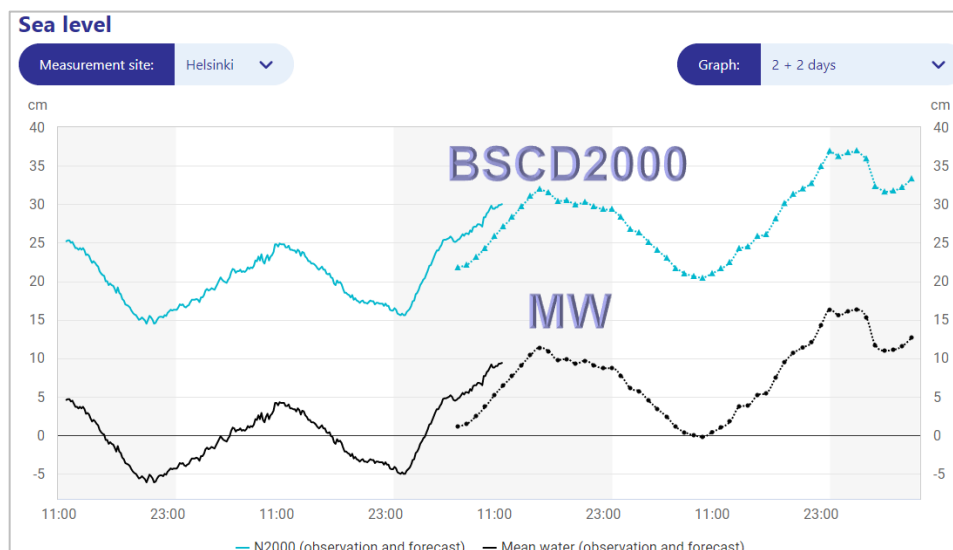
Theoretical mean sea level

- Has been the main height system for mariners in Finland
 - Finnish Meteorological Institute's main system until 2021
- Difference to other systems yearly as a table
 - en.ilmatieteenlaitos.fi/theoretical-mean-sea-level
- Calculated for every year separately
 - Based on sea level timeseries and scenarios
 - The function has varied in history
 - Corresponds very well to observations

STATION	2016				2017				2018				2019				2020			
	NN	N43	N60	N2000	NN	N43	N60	N2000	NN	N43	N60	N2000	NN	N43	N60	N2000	NN	N43	N60	N2000
Kemi	-664	-434	-292	119	-670	-440	-298	113	-676	-446	-304	107	-683	-453	-311	100	-687	-457	-315	96
Oulu	-630	-411	-283	116	-636	-417	-289	110	-641	-422	-294	105	-647	-428	-300	99	-651	-432	-304	95
Raase	-685	-426	-316	109	-689	-430	-320	105	-693	-434	-324	101	-697	-438	-328	97	-701	-442	-332	93
Pietarsaari	-745	-495	-350	90	-750	-500	-355	85	-754	-504	-359	81	-758	-508	-363	77	-762	-512	-367	73
Vaasa	-702	-465	-338	96	-706	-469	-342	92	-711	-474	-347	87	-715	-478	-351	83	-720	-483	-356	78
Kaskinen	-635	-437	-308	117	-639	-441	-312	113	-643	-445	-316	109	-647	-449	-320	105	-651	-453	-324	101
Mäntyluoto	-546	-386	-250	134	-549	-389	-253	131	-552	-392	-256	128	-555	-395	-259	125	-558	-398	-262	122
Rauma	-485	-350	-212	129	-488	-353	-215	126	-490	-355	-217	124	-492	-357	-219	122	-495	-360	-222	119
Turku	-306	-223	-140	152	-307	-224	-141	151	-308	-225	-142	150	-309	-226	-143	149	-310	-227	-144	148
Füglö	-328	-237	-153	120	-330	-239	-155	118	-331	-240	-156	117	-332	-241	-157	116	-333	-242	-158	115
Hanko	-152	-125	-76	176	-151	-124	-75	177	-151	-124	-75	177	-150	-123	-74	178	-150	-123	-74	178
Helsinki	-101	-101	-51	201	-100	-100	-50	202	-99	-99	-49	203	-98	-98	-48	204	-97	-97	-47	205
Purvoo	-75	-85	-40	202	-74	-84	-39	203	-73	-83	-38	204	-72	-82	-37	205	-70	-80	-35	207
Hamina	-62	-71	-8	204	-61	-70	-7	205	-59	-68	-5	207	-58	-67	-4	208	-56	-65	-2	210

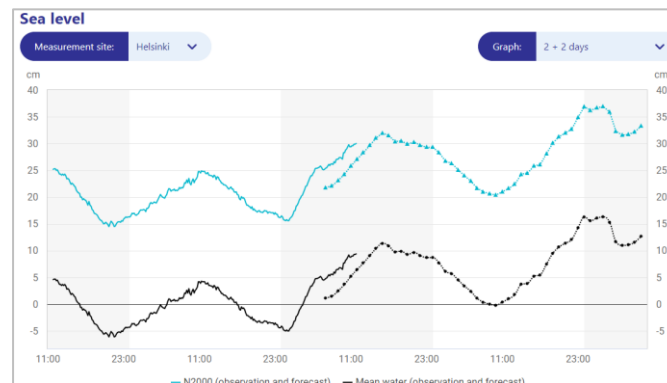
BSCD2000 = N2000

- Sea level data will be in two systems **15.9.2021**
 1. BSCD2000 (= N2000 in Finland)
 2. Theoretical mean sea level (MW)
- User can choose which system to use

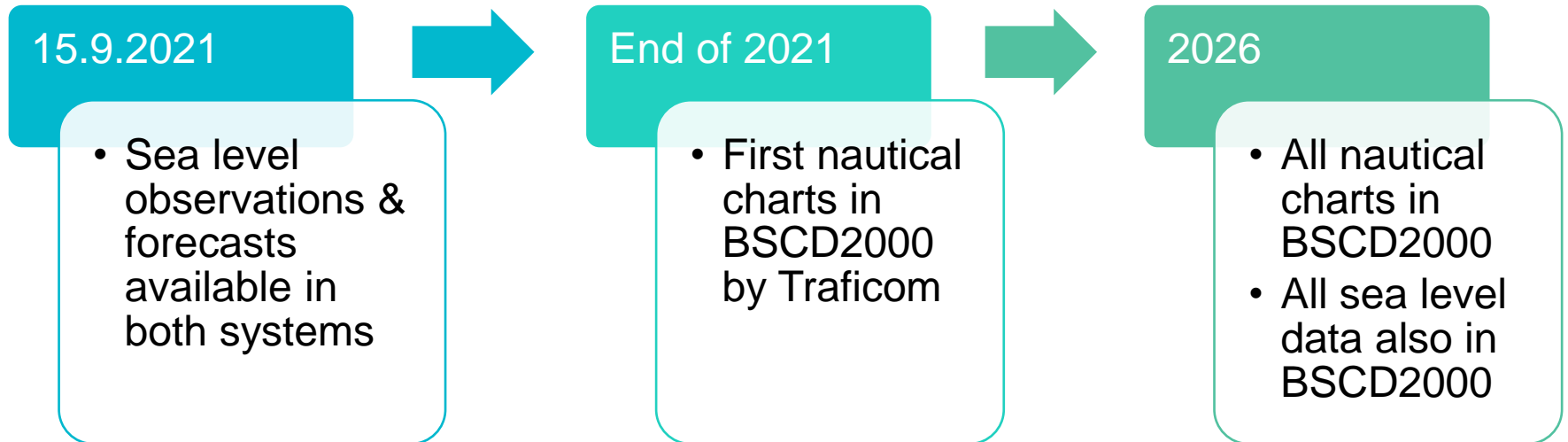


BSCD2000 sea level data available in Finnish Meteorological Institute

- Latest observations & forecasts on web:
 - en.ilmatieteenlaitos.fi/sea-level
- Open data
 - Observations and forecasts in machine-readable format
 - en.ilmatieteenlaitos.fi/open-data
- Download observations
 - Easy portal to load observations as a table
 - en.ilmatieteenlaitos.fi/download-observations



Schedule





ILMATIETEEN LAITOS
METEOROLOGISKA INSTITUTET
FINNISH METEOROLOGICAL INSTITUTE

Thank you!

7.9.2021

Anni Montonen
Oceanographic Services

