

Wave measurements in Iceland



Vegagerðin Icelandic Road and Coastal
Administration, www.waves.is

Wave measurements in Iceland

- Scientific wave measurements from 1957
- 1969 first Waverider buoy
- From 1990ies continuous deployment, publish data in real-time, information system for seafarers
- From about 2010, current system of 11 buoys

Wave measurements in Iceland

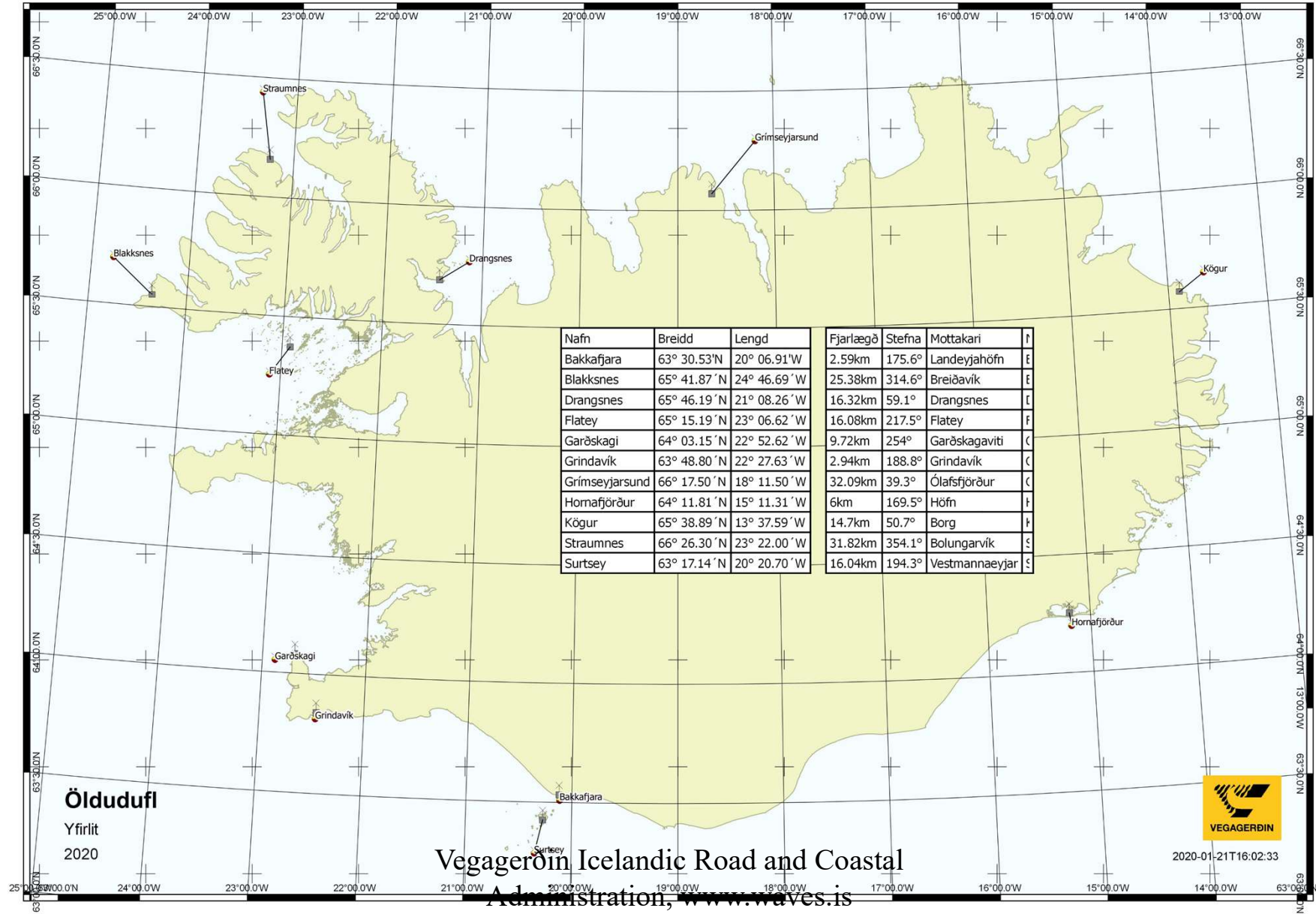
- Information system for seafarers

- Real time data

- Wave buoys, anemometer, tide gauge, ...

- Predictions

- Areas and spot locations

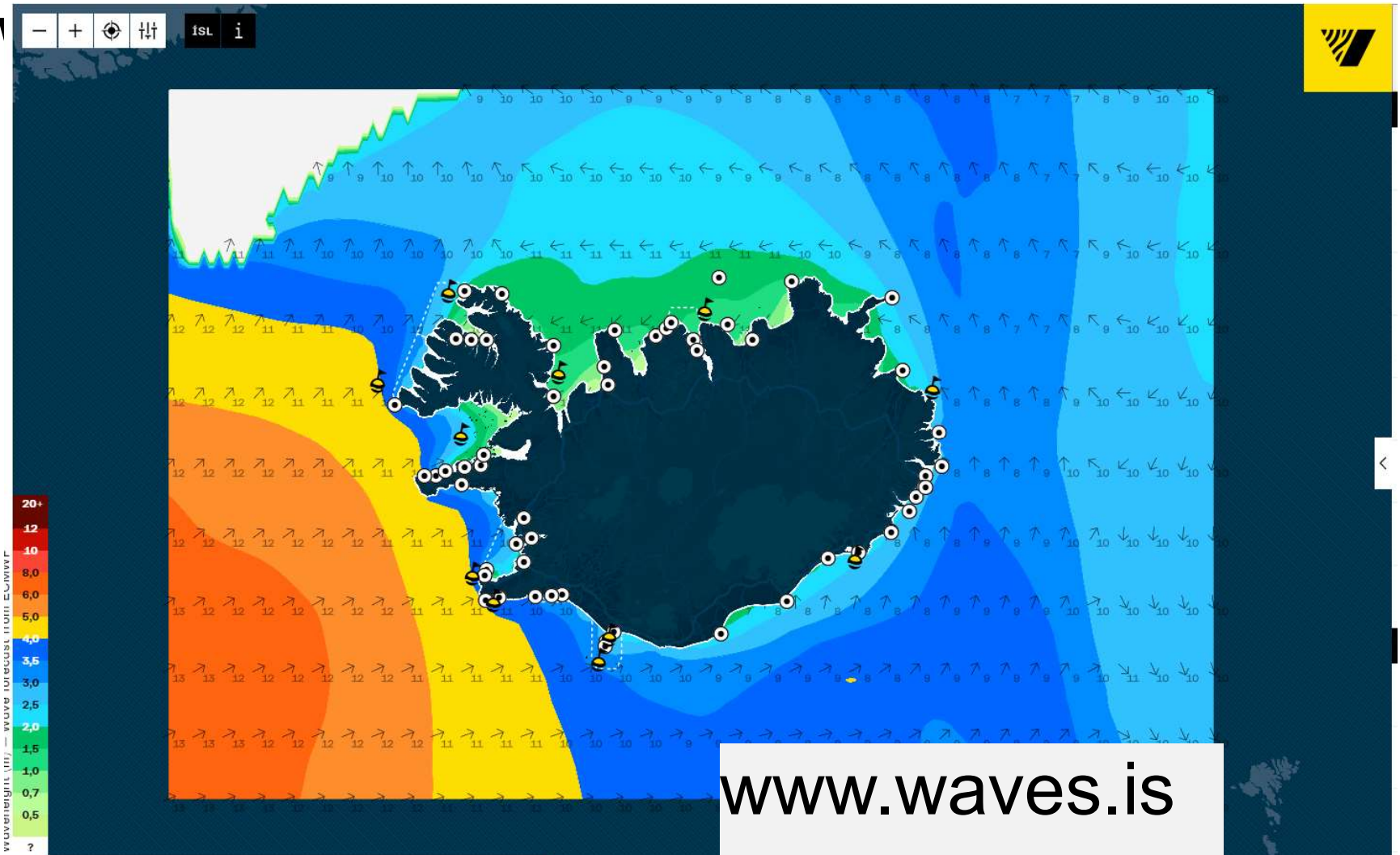


Ölduþúfl
Yfirlit
2020

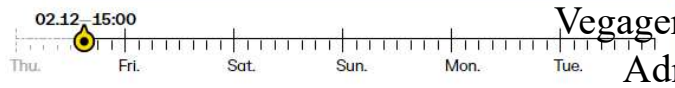
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2020-01-21T16:02:33



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Wave measurements in Iceland

.Wave data presented in real time

- Hs, Tz, theoretical wave length $L \propto g \cdot T^2$
- .

.Future developments

- Monthly and yearly summaries
 - . Need to screen data for errors
 - . Aim for automatic processes

Garðskagadúfl

Garðskagadúfl – 12:57

Significant waveheight
3,1 m

Mean period
6,2 s

Wavelength
60 m

Last check
12:57 02.12.21

Graphs Measurements Forecast

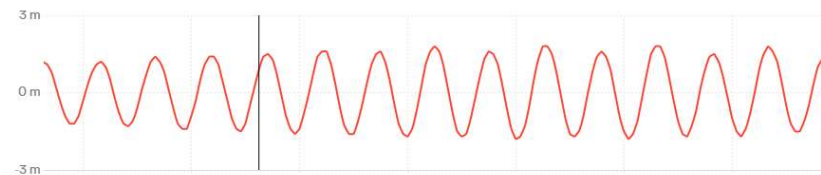
Date Wave forecast Measurement

02.12 – 15:00

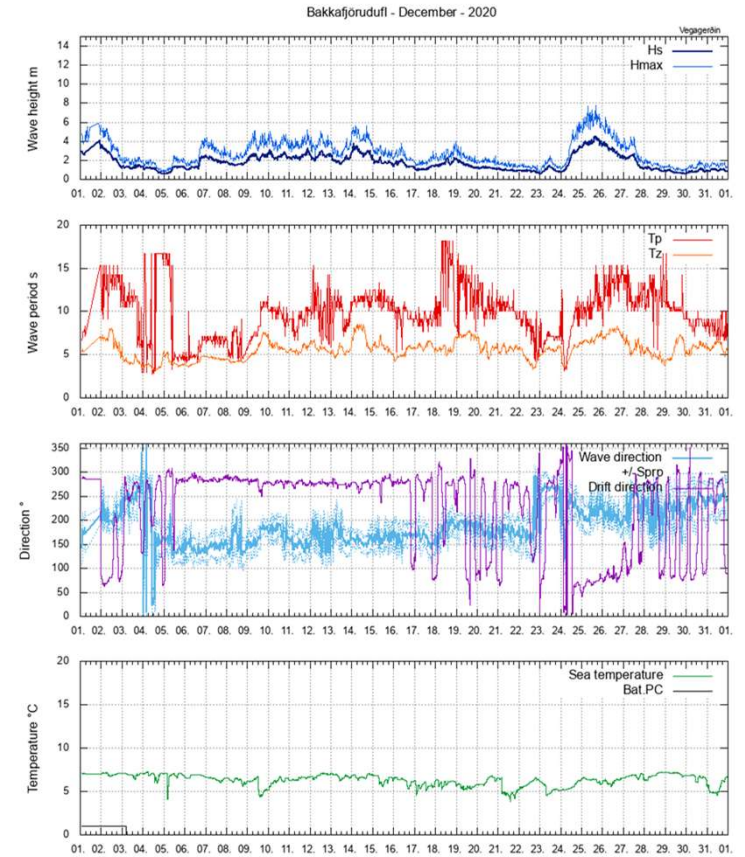


Date Tide

02.12 – 15:00 0,9 m



Show all



Bakkafjörudúfl - December - 2020

Parameter	Mean	Min	25%	Median	75%	Max
Significant wave height Hs m	1.7	0.6	1.1	1.5	2.3	4.5
Max wave height m	2.7	0.8	1.7	2.3	3.6	7.8
Mean period Tz s	5.5	3.1	4.7	5.6	6.2	8.5
Peak period Tp s	9.8	2.8	7.7	10.0	11.1	18.2
Wave direction	188.1	2.8	157.5	180.0	218.0	357.2
Buoy drift direction	220.6	2.5	122.9	274.3	282.7	359.4
Sea temperature C	6.3	3.9	5.9	6.5	6.8	7.2

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