



LANDHELGISGÆSLA ÍSLANDS
THE ICELANDIC COAST GUARD

The Icelandic Coast Guard and MSDI

Hydrographic Surveying and Charting in Iceland

Nautical Data relevant to MSDI

Current status



ICG Hydrographic Department – in short

Survey equipment

- Positioning:
 - *Trimble TASMAN and Applanix POS/MV Satellite System*
- Echosounding:
 - Single beam: *Odom Mark III*
 - Multibeam: *Reson 8101*

• Software: **CARIS**

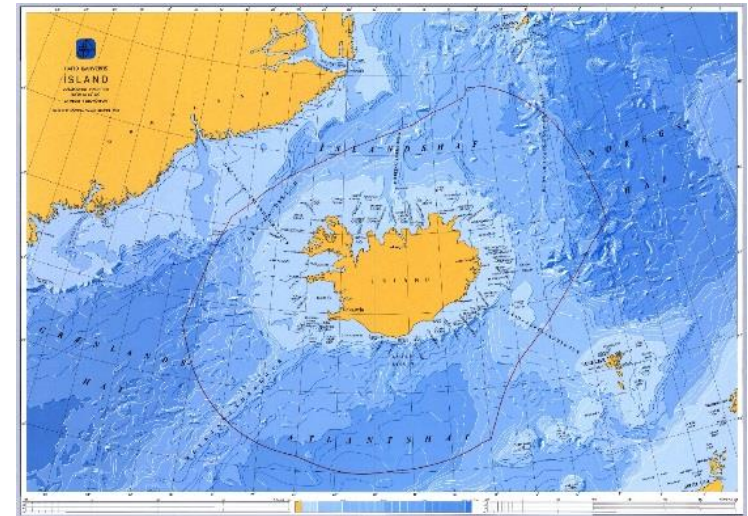
- Survey processing: **CARIS HIPS**
- Chart production and ENCs:
 - Paper charts: **CARIS GIS Professional**
 - *CARIS Paper Chart Composer*
 - *CARIS BASE Editor being implemented*
 - ENCs: **CARIS S-57 Composer**

• Staff: **8** (+2 in 2020)

- **3** Hydrography, **5** Charting



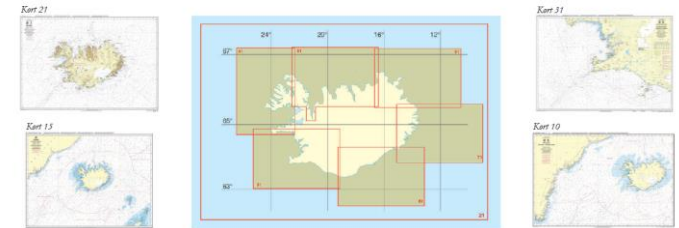
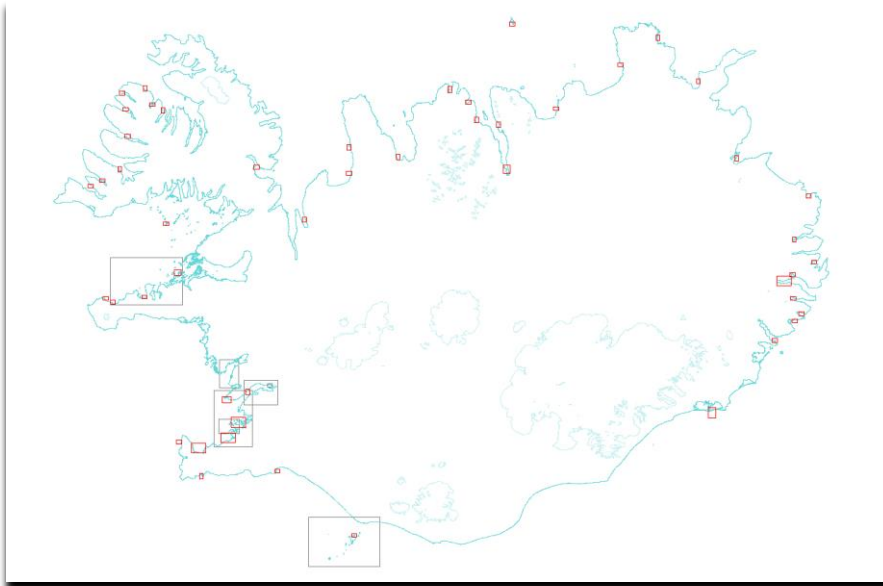
M/S BALDUR. 54 tons, 20 m. Launched in 1991.



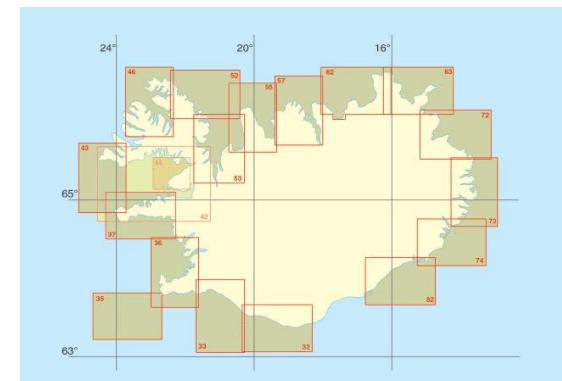


Icelandic charts in publication

Approach- and Harbour Coastal Charts Scale 1:50.000 and 1:10.000



Transit charts Scale 1:300.000, 1, 2. and 3.5 milljon

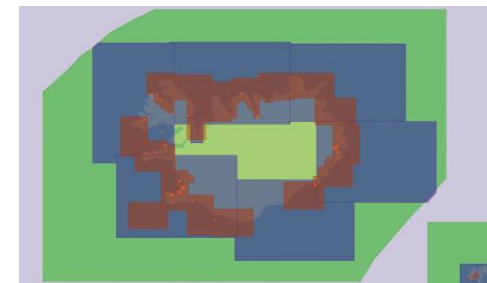


Coastal Charts Scale 1:100.000

In total 150 Charts
79 Paper Charts, 71 ENCs

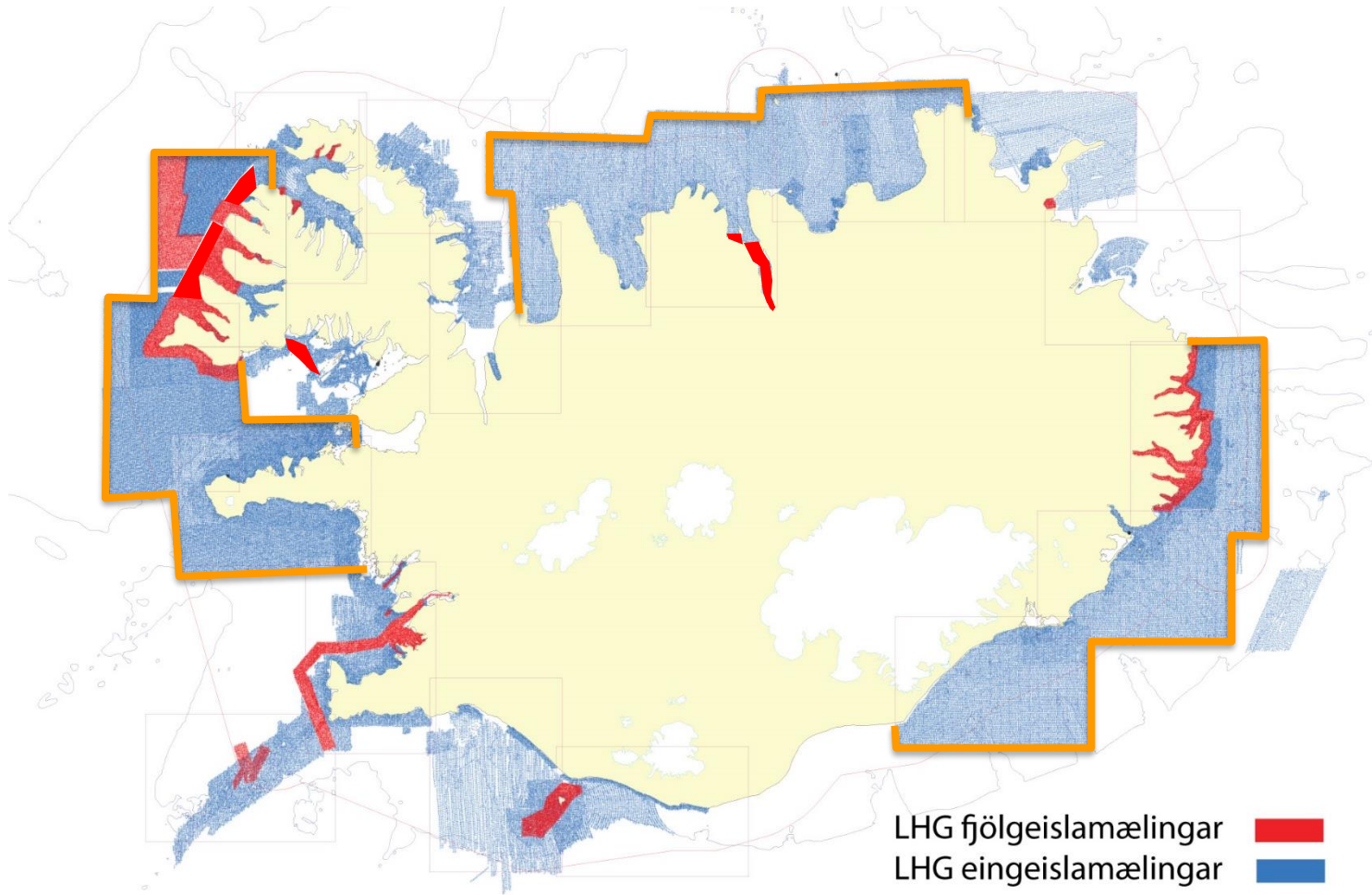
(Paper charts: 51 Approach- and Harbour Coastal Charts (45, 1:10.000), 19 Coastal Charts and 9 Transit charts)

www.lhg.is/starfsemi/sjomaelingasvid/sjokort/kortaskra





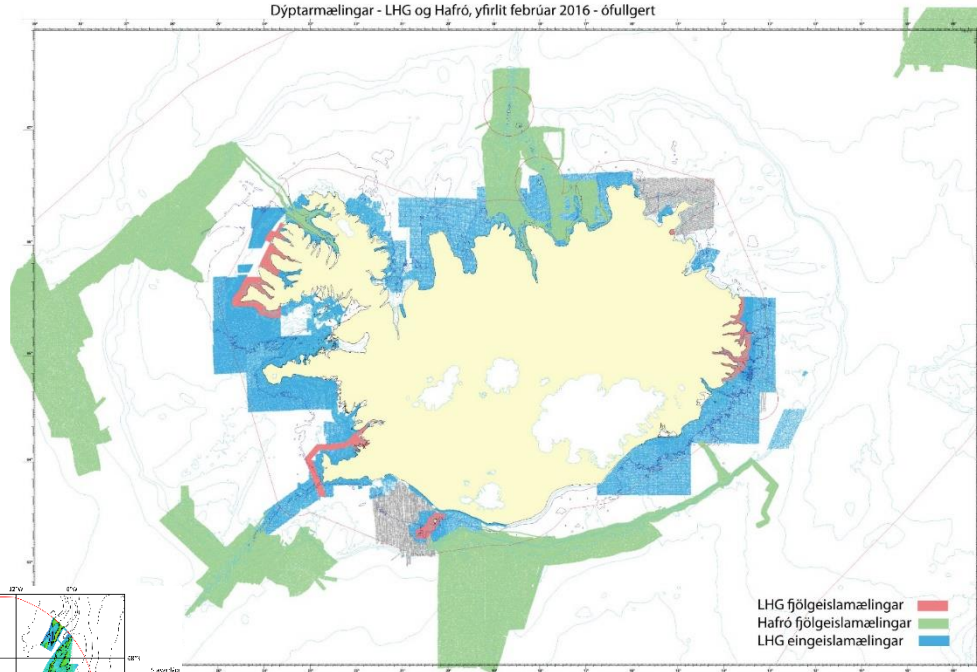
ICG depth data





Seabed topography: Depth soundings

Dýptarmælingar - LHG og Hafró, yfirlit febrúar 2016 - ófullgert



TXT files: Position and Depth

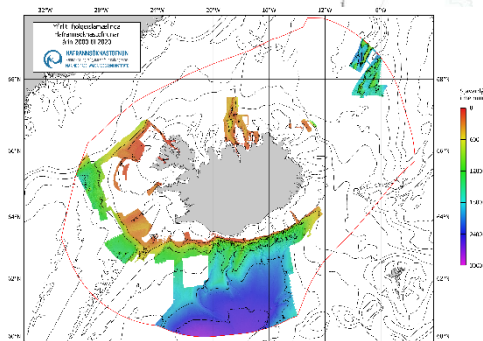
459229.836 7113219.287 9.90
459230.939 7113219.209 9.91
459229.857 7113219.581 9.85

64-08-59.392N 21-50-18.252W 6.80
64-08-59.377N 21-50-18.030W 6.73
64-08-59.458N 21-50-17.995W 6.79



GEBCO world map 2014, www.gebco.net"

Open
data



EMODnet Bathymetry
GEBCO
Seabed 2030

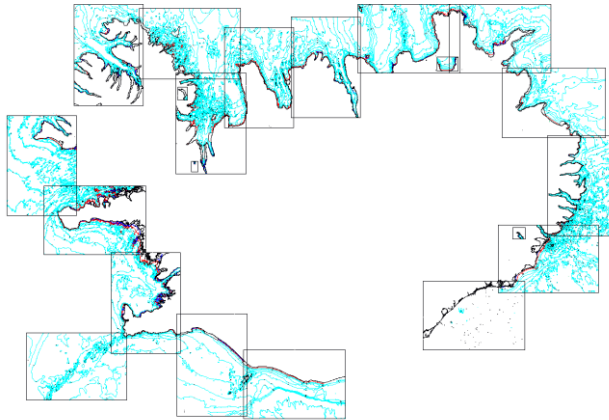
Icelandic Coast Guard - Multibeam surveys
Marine Research Institute - Multibeam surveys
Icelandic Coast Guard - Singlebeam surveys

<https://www.hafogvatn.is/is/rannsoknir/kortlagning-hafsbotnsins>

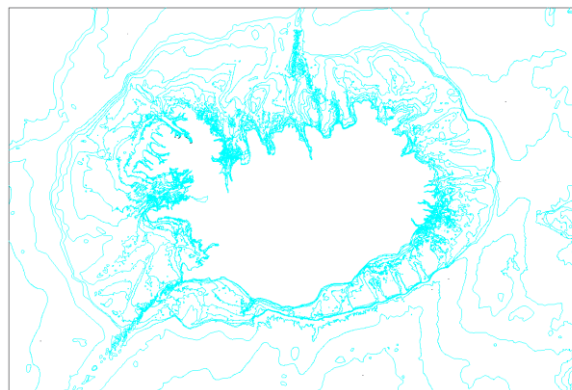
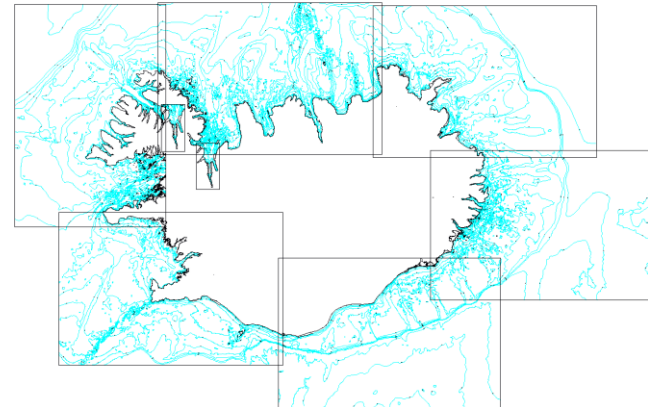


Seabed topography: Depth contours

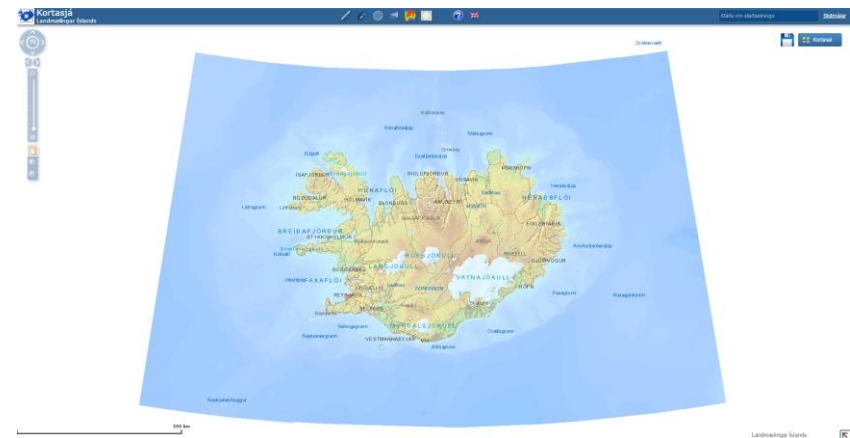
1:100.000



1:300.000



1:1.000.000



<https://kort.lmi.is/#>



Administrative and legal boundaries

- **Baseline, Territorial Sea, EEZ**
 - As defined by law

I. Landhelgi.

■ 1. gr.

□ [Landhelgi Íslands skal afmörkuð af línu sem alls staðar er 12 sjómílur frá grunnlínu sem dregin er milli eftirtalinna staða:

1. $66^{\circ}27'18,73''\text{N } 22^{\circ}24'10,19''\text{V}$ Horn I
2. $66^{\circ}08'04,64''\text{N } 20^{\circ}10'48,81''\text{V}$ Ásbúðarrif
3. $66^{\circ}12'04,58''\text{N } 18^{\circ}51'30,00''\text{V}$ Siglunes
4. $66^{\circ}10'20,57''\text{N } 17^{\circ}51'14,76''\text{V}$ Flatey
5. $66^{\circ}17'59,33''\text{N } 17^{\circ}07'02,92''\text{V}$ Lágey
6. $66^{\circ}30'37,67''\text{N } 16^{\circ}32'38,58''\text{V}$ Rauðinúpur
7. $66^{\circ}32'26,03''\text{N } 16^{\circ}11'47,30''\text{V}$ Rifstangi
8. $66^{\circ}32'16,91''\text{N } 16^{\circ}01'52,45''\text{V}$

Hraunhafnartangi I

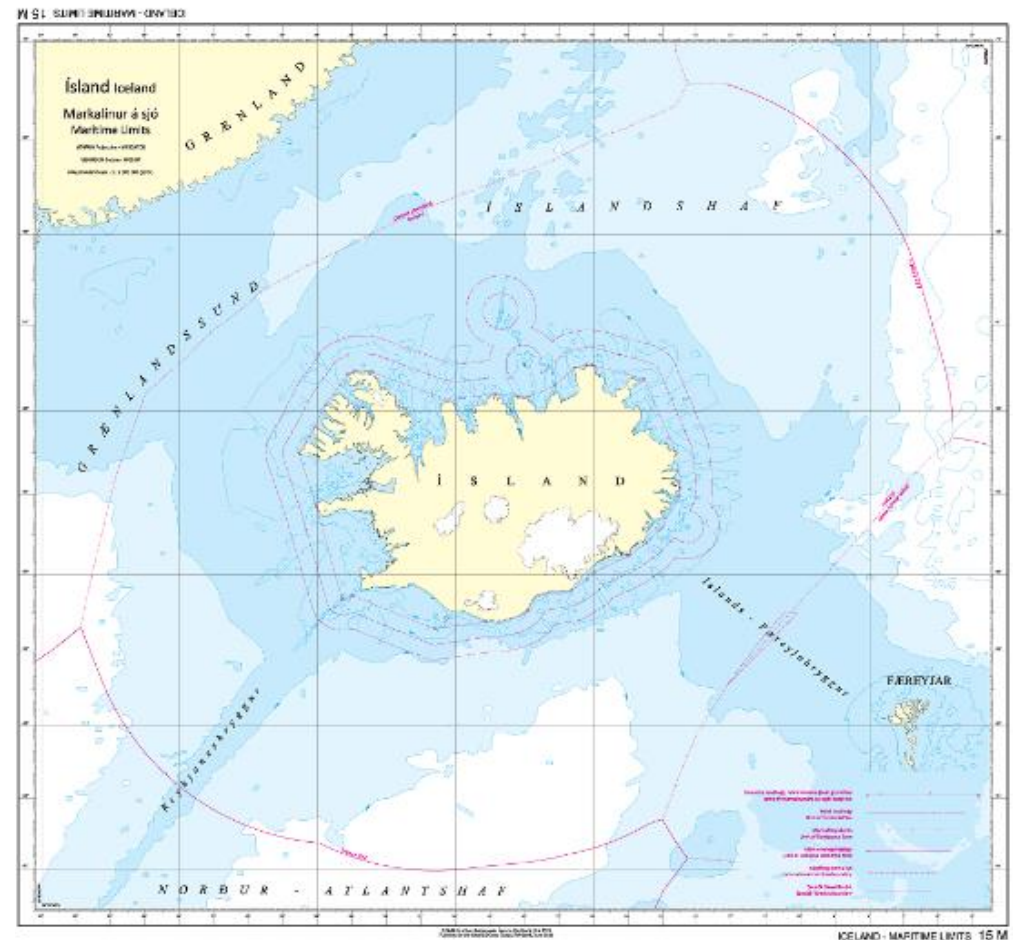
9. $66^{\circ}32'15,98''\text{N } 16^{\circ}01'31,32''\text{V}$

Hraunhafnartangi II

10. $66^{\circ}32'14,74''\text{N } 16^{\circ}01'18,66''\text{V}$

Hraunhafnartangi III

11. $66^{\circ}22'42,72''\text{N } 14^{\circ}31'47,69''\text{V}$ Langanes





Landmælingar Íslands

- National Land Survey of Iceland – open data
– Landupplýsingagátt
- <https://gatt.lmi.is/geonetwork/srv/eng/catalog.search#/home>

- Geo-info
- portal



Current status

- ... with reference to the work of IHO
 - Observe progress of the work of the IHO MSDIWG
 - Observe and participate:
 - ARMSDIWG (ARCTIC SDI)
 - Iceland hosted ARMSDIWG_3 in April 2019
 - IS member of the WG from 2016-2017
 - BS-NSMSDIWG
 - IS inactive until now ...
 - The Nordic Hydrographic Commission (NHC)
 - The North Sea Hydrographic Commission (NSHC)
 - The Arctic Region Hydrographic Commission (ARHC) Associate member



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Thank you