
National Report on the Icelandic Weather Radar Network

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Three New Weather Radars 2021-2022

Installation of three new state-of-the-art C-band radars in Iceland replacing two old ones

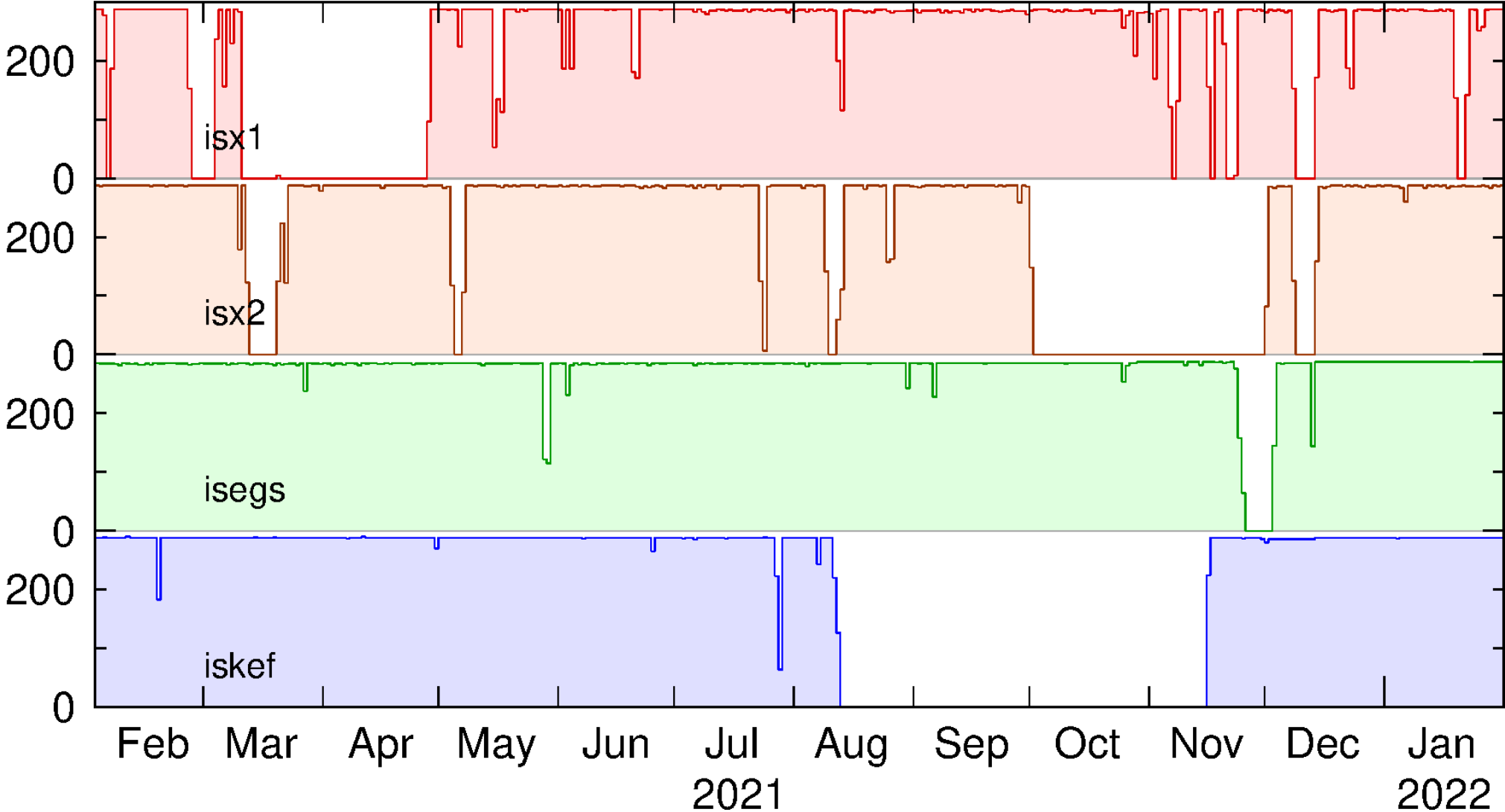
Leonardo Meteor 735CDP10 weather radars

- Aug-Sep 2021 **iskef** renewed (SW-Iceland)
 - Dual-Pol, 480 kW, 5450 MHz, SAT 1 Oct 2021
- ~Aug 2022 **isegs** renewed (E-Iceland) – Probably new site, Gagnheiði **isgag**
- ~Sep 2022 **isska** new radar (N-Iceland)

RPP at IMO-hq: Latest version of Rainbow 5.57 installed

Radar Data Retrievals

Number of scans per day, Feb 2021 – Jan 2022



Data Retrievals 2021

Keflavík - iskef

- Jan–Dec 2021: 73.2%



Keflavík SW-Iceland Leonardo Meteor 735CDP10 radar (2021).
Photo Hermann Arngrímsson Sept. 2021.

Fljótsdalsheiði - isegs

- Jan–Dec 2021: 95.1%



Fljótsdalsheiði E-Iceland EEC C-band radar. Photo Hermann Arngrímsson 8 July 2016.

Mobile - isx1

- Jan–Dec 2021: 78%

Mobile - isx2

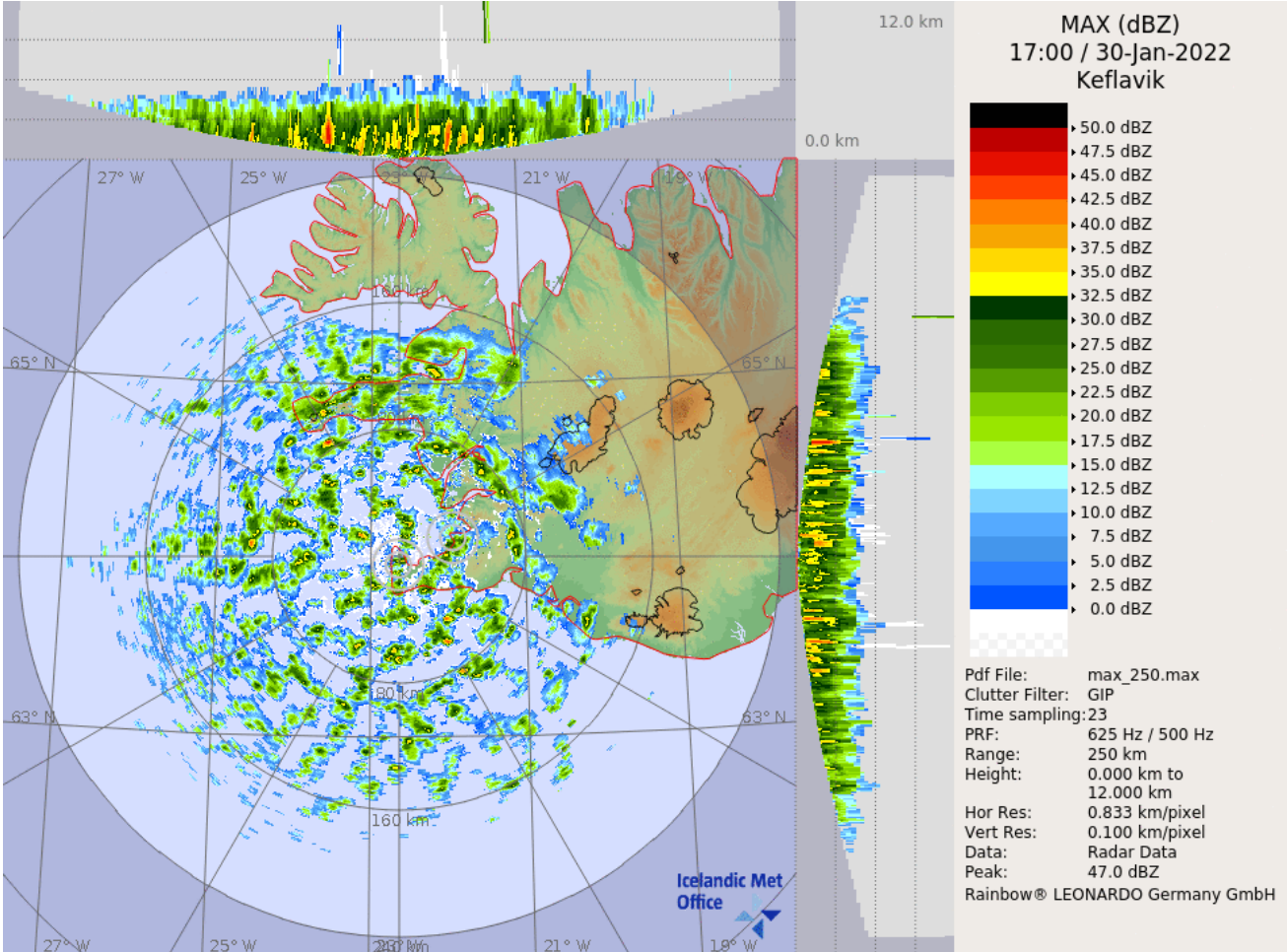
- Jan–Dec 2021: 76%



Specially adapted truck to take mobile radar off road. Photo Jón Gunnar Egilsson 25 Sept. 2019.

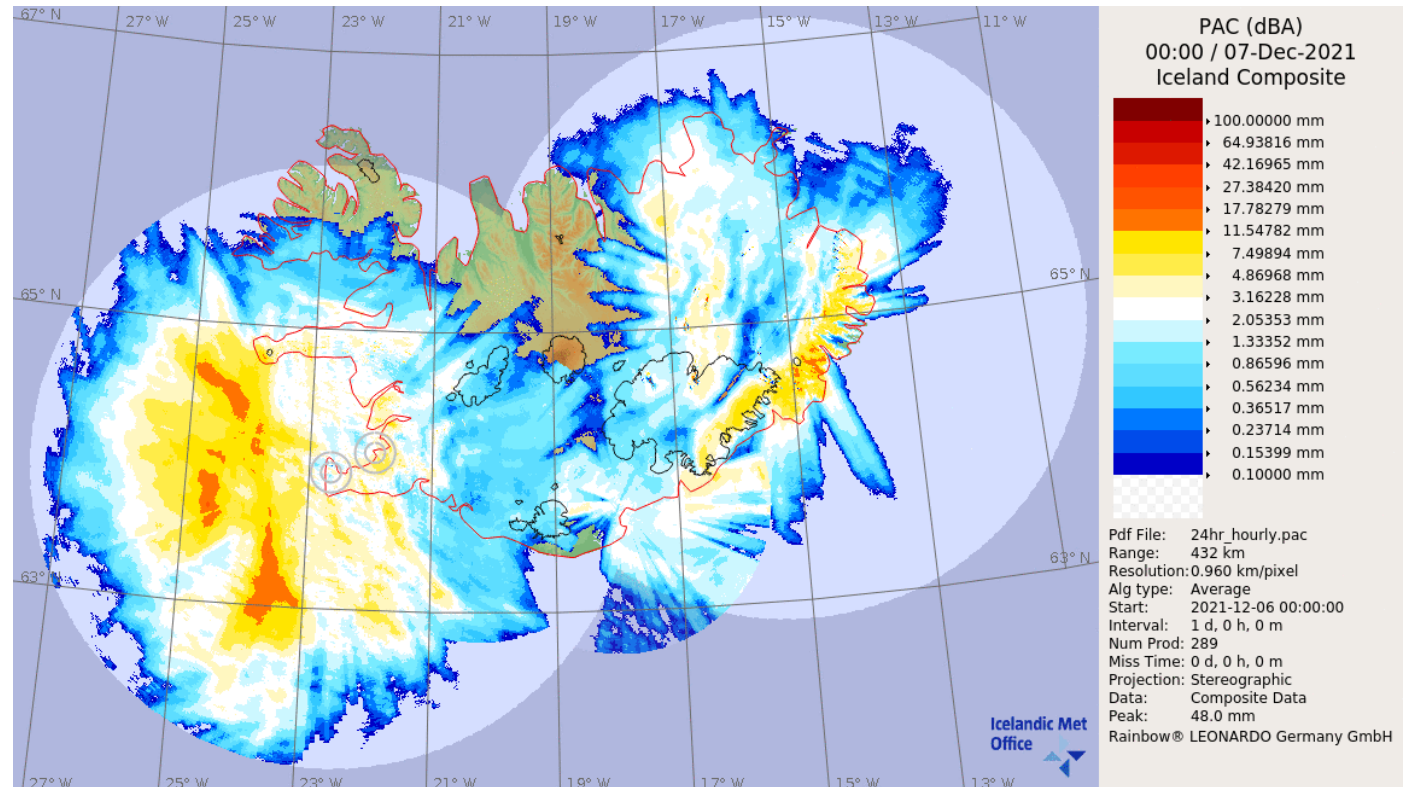
Range of Detectable Cumulonimbus

Detection of snow showers during wintertime fades away at a range of 120-150 km



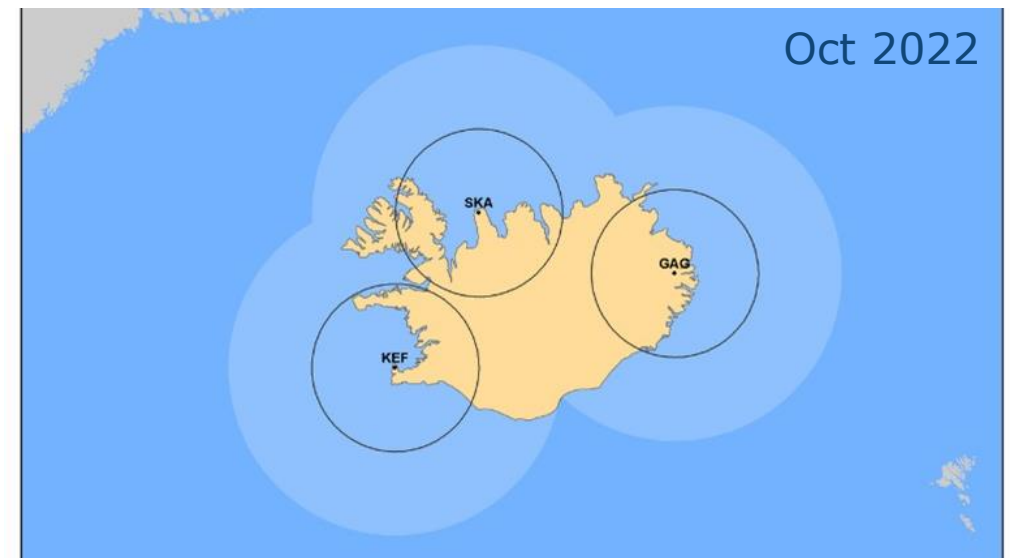
Orographic Blocking in E-Iceland

- **isegs** – A mountain range blocks the current view to SE in E-Iceland
- **isgag** – We are considering a new site at *Gagnheiði*, 40 km NE of the current site



Installation Plan for 2022

- **isegs** — Old EEC radar terminated at Fljótsdalsheiði, E-Iceland, 2022 / 2023
- **isgag** — New radar site at Gagnheiði, E-Iceland, Leonardo Meteor 735CDP10, ~Aug 2022
- **isska** — New radar site at Skagi, N-Iceland, Leonardo Meteor 735CDP10, ~Sept 2022



Future Plan — 2023-2027

Approved by our Ministry

- **isbol** — Bolafjall,
NW-Iceland ~2024
- **ismel** — Melrakkaslétta,
NE-Iceland ~2026
- **iskla** — Kirkjubæjarklaustur,
S-Iceland ~2027

