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## **NASPMON: WP2 DATA ACQUISITION AND DATA ARCHIVING**

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**NASPMON** 1<sup>st</sup> in-person meeting, Reykjavík

September 8<sup>th</sup>, 2021

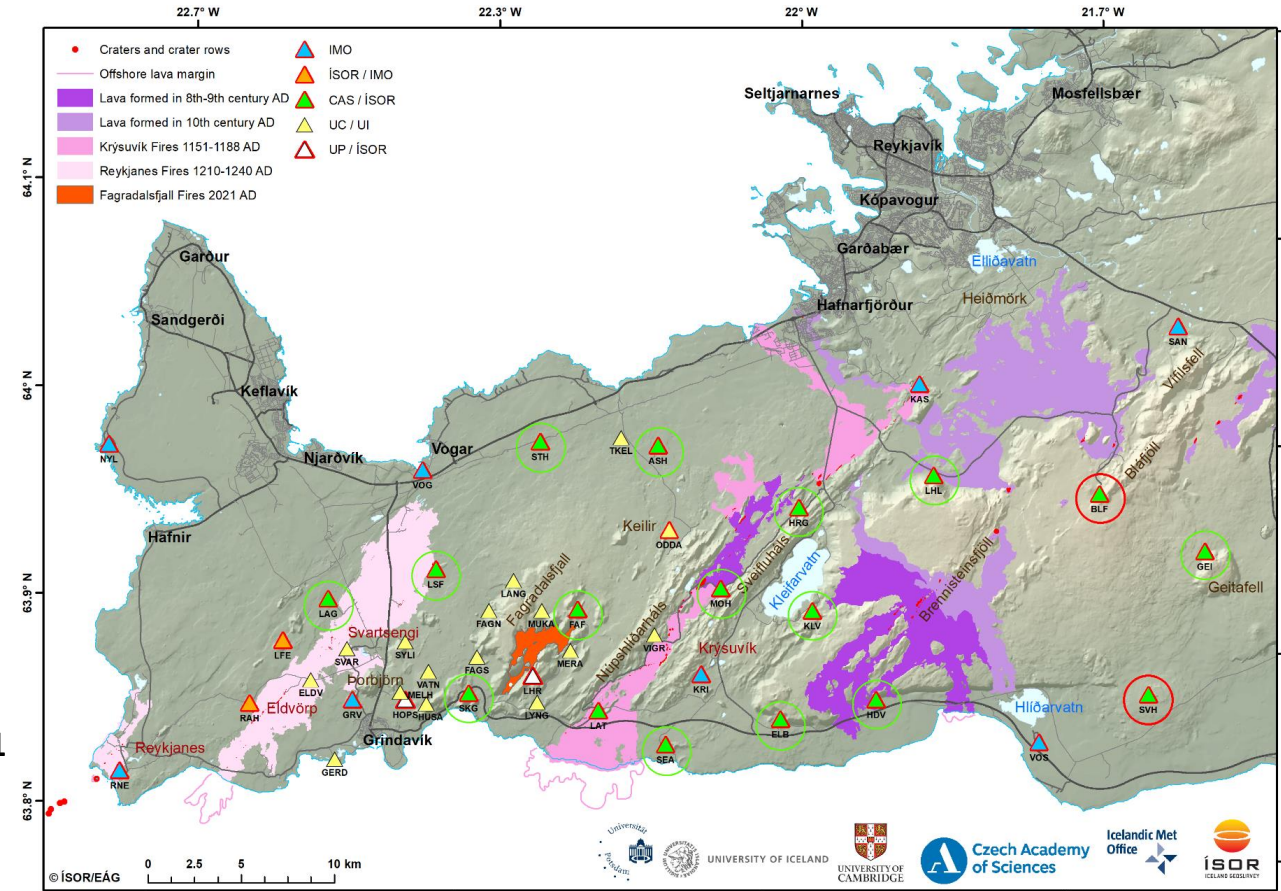
## WP2: DATA ACQUISITION AND DATA ARCHIVING

Two tasks:

- **Task 2.1: REYKJANET seismic network maintenance**
- **Task 2.2: Creation of database and data archiving**

and two milestones:

- **M1: Seismic data archive and structure complete by March 2021**
- **M2: REYKJANET data stations streaming in real time by April 2021**



## WP2: DATA ACQUISITION AND DATA ARCHIVING

- **Task 2.1: REYKJANET seismic network maintenance**
  - Network service twice per year in the field
    - Additional repairs and maintenance due to wear and tear (harsh weather conditions).
  - Archive maintenance of instreaming data
  - Data streaming in real time



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- **Task 2.1: REYKJANET seismic network maintenance**
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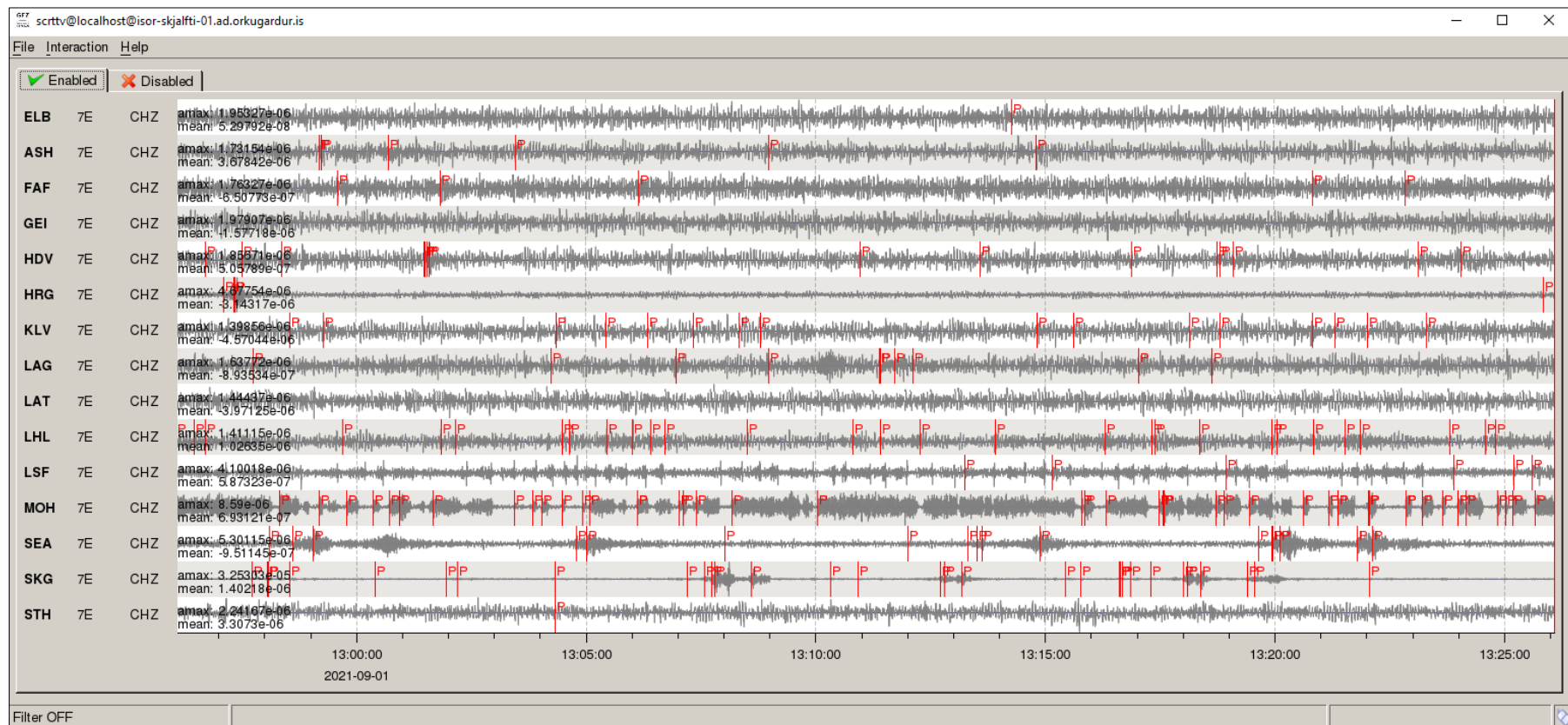
```

sysop@isor-skjalfti-02 ~/seiscomp3/var/lib/archive/2021/7E $ ll
total 64
drwxr-xr-x 33 sysop isor 4096 Mar  2 23:07 ASH
drwxr-xr-x 34 sysop isor 4096 Apr  8 18:10 ELB
drwxr-xr-x 34 sysop isor 4096 Mar  6 17:07 FAF
drwxr-xr-x 32 sysop isor 4096 May  7 14:15 GEI
drwxr-xr-x 34 sysop isor 4096 Apr 20 22:05 HDV
drwxr-xr-x 34 sysop isor 4096 Mar  5 14:30 HRG
drwxr-xr-x 31 sysop isor 4096 Jan  4 2021 ISS
drwxr-xr-x 31 sysop isor 4096 Mar  3 12:05 KLV
drwxr-xr-x 31 sysop isor 4096 Jan  4 2021 LAG
drwxr-xr-x 36 sysop isor 4096 Mar  2 23:07 LAT
drwxr-xr-x 34 sysop isor 4096 Mar  5 10:50 LHL
drwxr-xr-x 31 sysop isor 4096 Jan  4 2021 LSF
drwxr-xr-x 36 sysop isor 4096 Mar  2 23:07 MOH
drwxr-xr-x 31 sysop isor 4096 Mar  3 17:05 SEA
drwxr-xr-x 31 sysop isor 4096 Jun 24 12:49 SKG
drwxr-xr-x 31 sysop isor 4096 Apr  8 15:30 STH
    
```

#	Stöð	Net	timi	Availability	Seedlink	delay	latency	Spenna	GPS	Offset	rms
01	KLV	7E	2021-09-01 13:06:45	100	0d 00:00:01	0d 00:00:00	1.64378	13.41	90.6804	-1465.85	74.3295
02	SEA	7E	2021-09-01 13:06:52	100	0d 00:00:01	0d 00:00:00	1.24579	12.25	90	-304.418	136.017
03	MOH	7E	2021-09-01 13:06:57	100	0d 00:00:02	0d 00:00:00	1.01528	11.94	99.6043	222.97	337.498
04	HDV	7E	2021-09-01 13:06:39	100	0d 00:00:03	0d 00:00:00	1.6375	13.56	90	167.339	106.694
05	LSF	7E	2021-09-01 13:07:12	100	0d 00:00:02	0d 00:00:00	1.14757	12.08	90.7292	158.615	107.225
06	HRG	7E	2021-09-01 13:06:14	100	0d 00:00:02	0d 00:00:00	1.59963	13.29	90	-1006.54	86.4003
07	LHL	7E	2021-09-01 13:06:33	100	0d 00:00:02	0d 00:00:00	1.58183	12.88	90.204	655.794	98.2303
08	LAT	7E	2021-09-01 13:06:43	100	0d 00:00:03	0d 00:00:00	1.63586	13.31	90	-1269.79	92.2261
09	LAG	7E	2021-09-01 13:06:30	100	0d 00:00:03	0d 00:00:00	1.64699	12.7	90	-296.697	86.6077
10	GEI	7E	2021-09-01 13:07:09	100	0d 00:00:02	0d 00:00:00	1.58637	14.04	90	-501.971	101.872
11	SKG	7E	2021-09-01 13:06:54	100	0d 00:00:02	0d 00:00:01	1.61861	12.91	90.6831	448.218	163.318
12	FAF	7E	2021-09-01 13:07:00	100	0d 00:00:02	0d 00:00:00	1.61963	12.51	90	-211.853	108.055
13	ELB	7E	2021-09-01 13:06:43	100	0d 00:00:03	0d 00:00:00	1.64216	12.4	90	20.0824	120.141
14	STH	7E	2021-09-01 13:07:00	100	0d 00:00:01	0d 00:00:00	1.64343	13.07	90.3803	1037.76	98.0386
15	ASH	7E	2021-09-01 13:06:24	100	0d 00:00:02	0d 00:00:00	1.56505	12.96	90	1162.25	86.2945

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- **Task 2.1: REYKJANET seismic network maintenance**
- Network service twice per year in the field
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- Archive maintenance of instreaming data
- **Data streaming in real time: M2: REYKJANET data stations streaming in real time by April 2021 – milestone accomplished.**



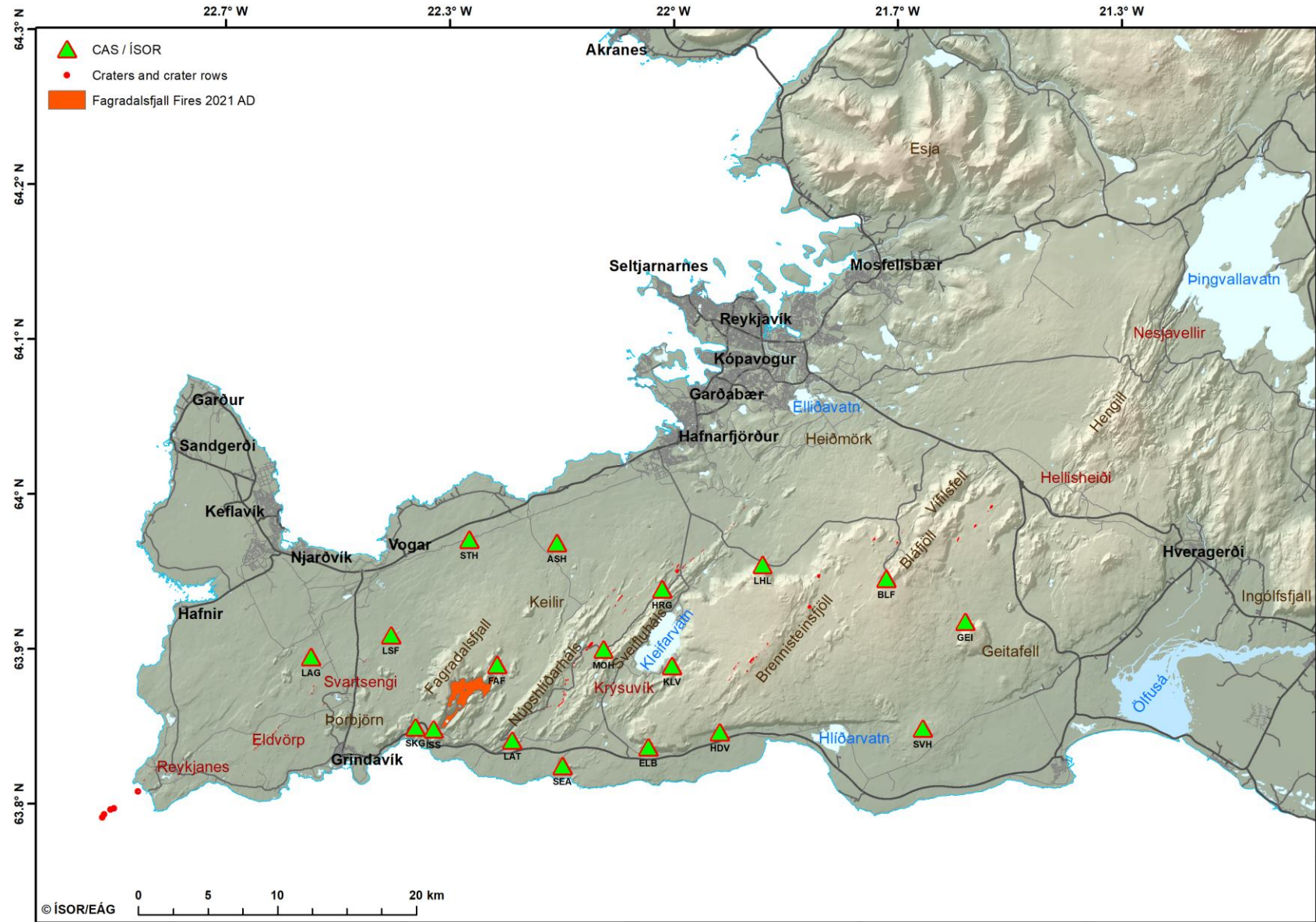
## WP2: DATA ACQUISITION AND DATA ARCHIVING

### • Task 2.2: Creation of database and data archiving

- Construction of Reykjanes seismic data base. Gather Full waveform data from:

- **REYKJANET**

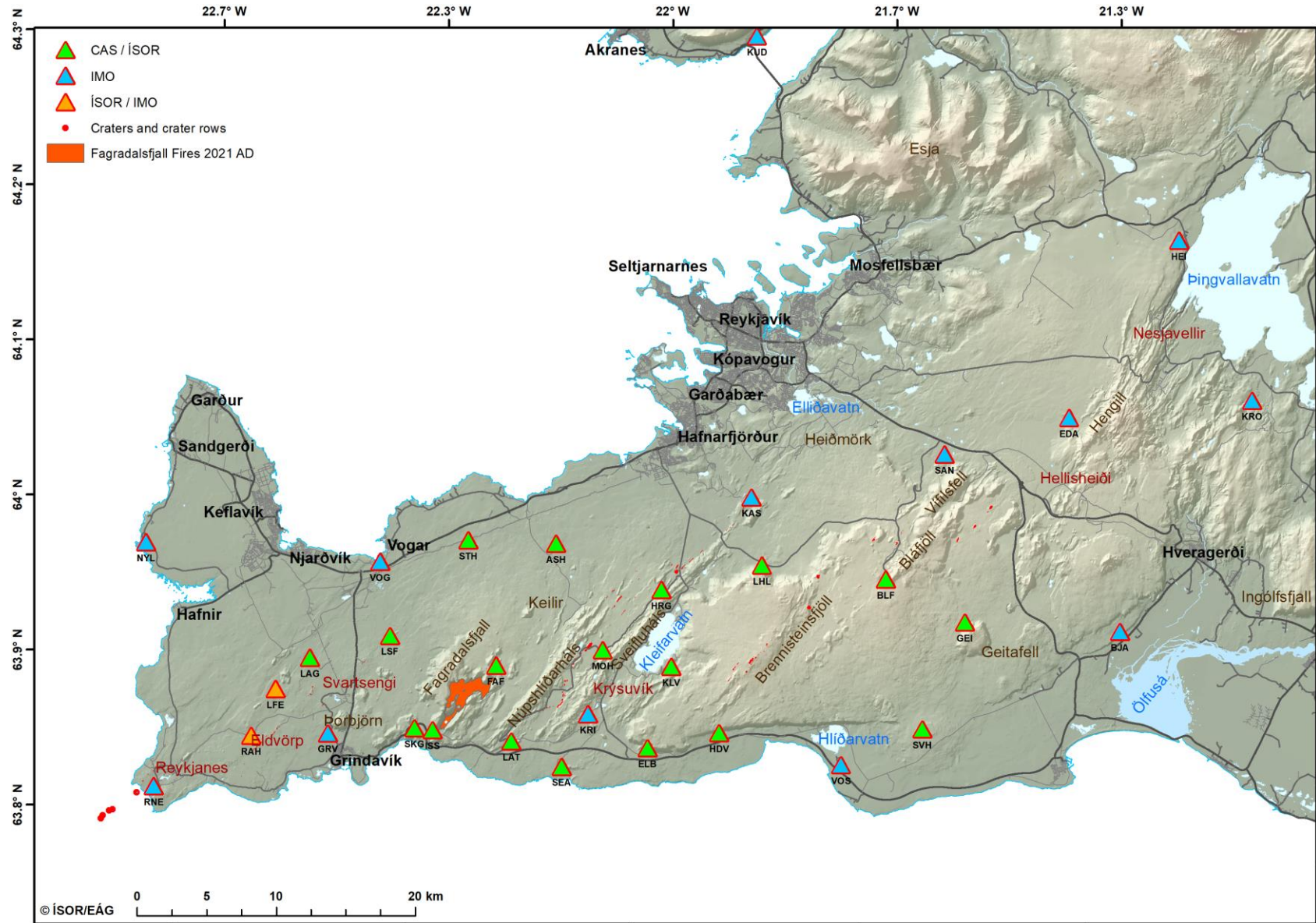
- IMO
- HS Orka
- IMAGE project
- Reykjavik Energy (ON)
- Cambridge / Eva Eibl
- thus, all available seismic data in Reykjanes Peninsula.
  - Archive structuring
  - Data quality control with regards to GPS timings and data gaps
  - Check masses



## WP2: DATA ACQUISITION AND DATA ARCHIVING

### • Task 2.2: Creation of database and data archiving

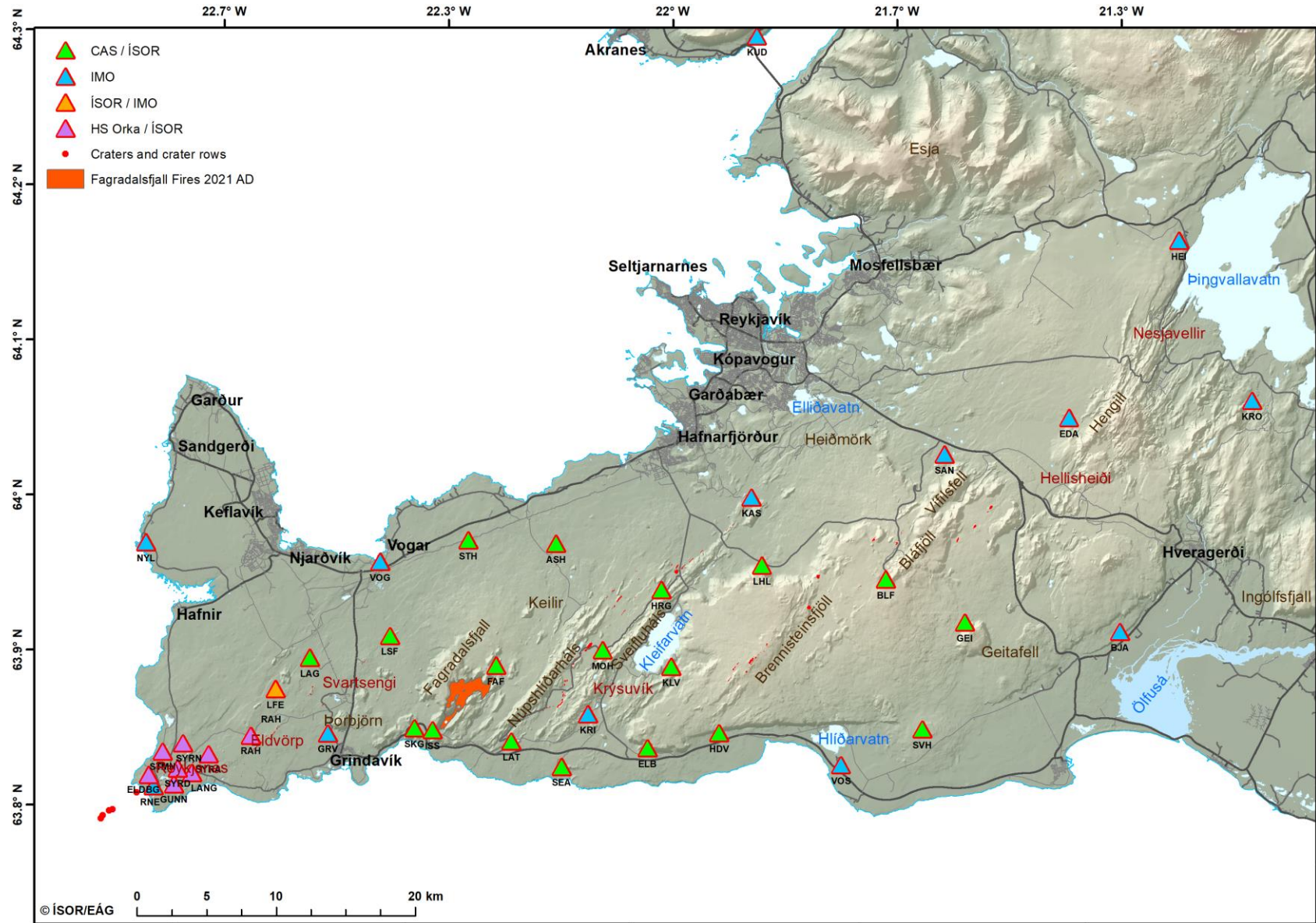
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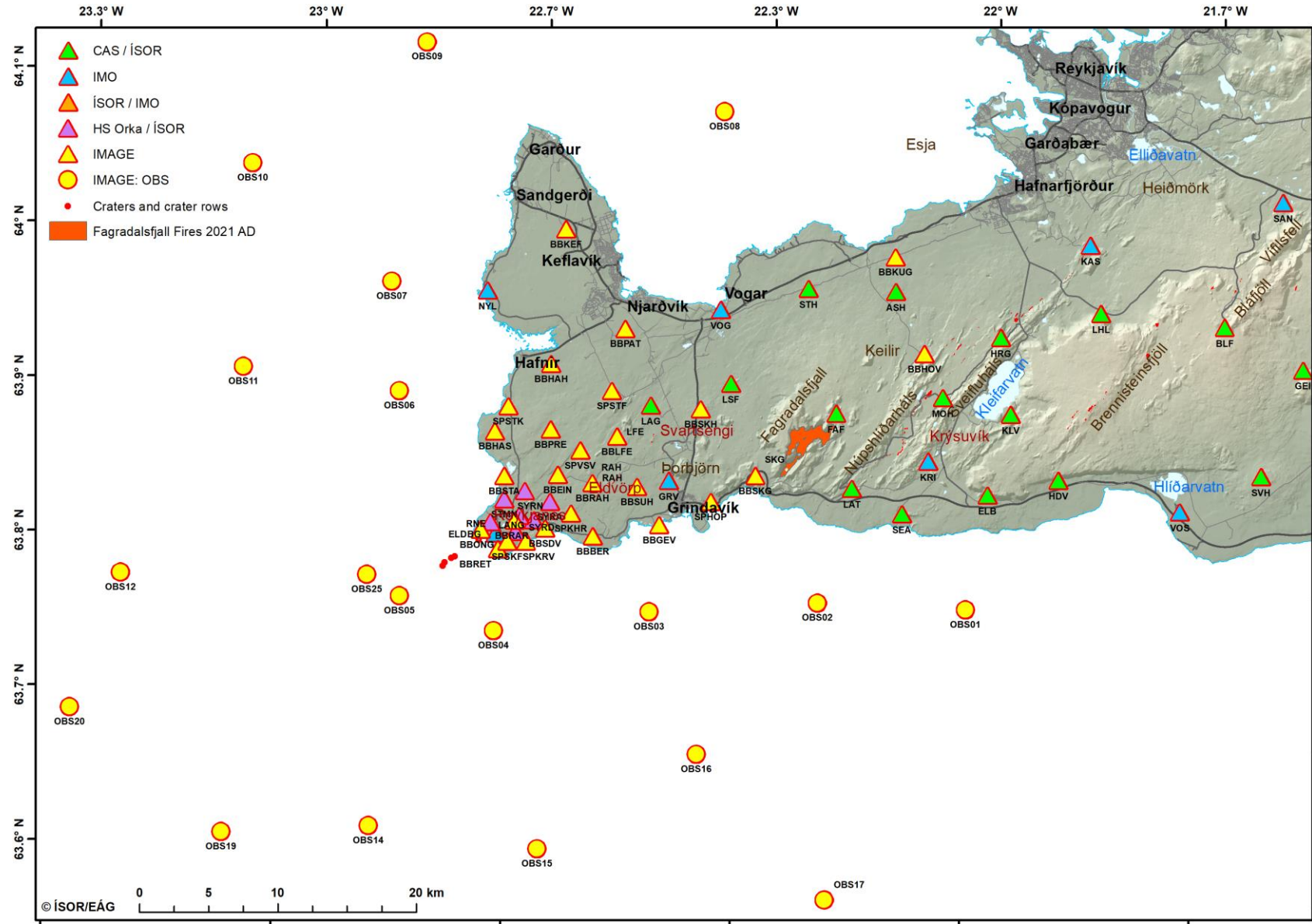
- **IMAGE project**

- Reykjavik Energy (ON)

- Cambridge / Eva Eibl

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2014 - 2015 : in archive / Trillium Compact 120s + Mark L-4C 1Hz + OBS's

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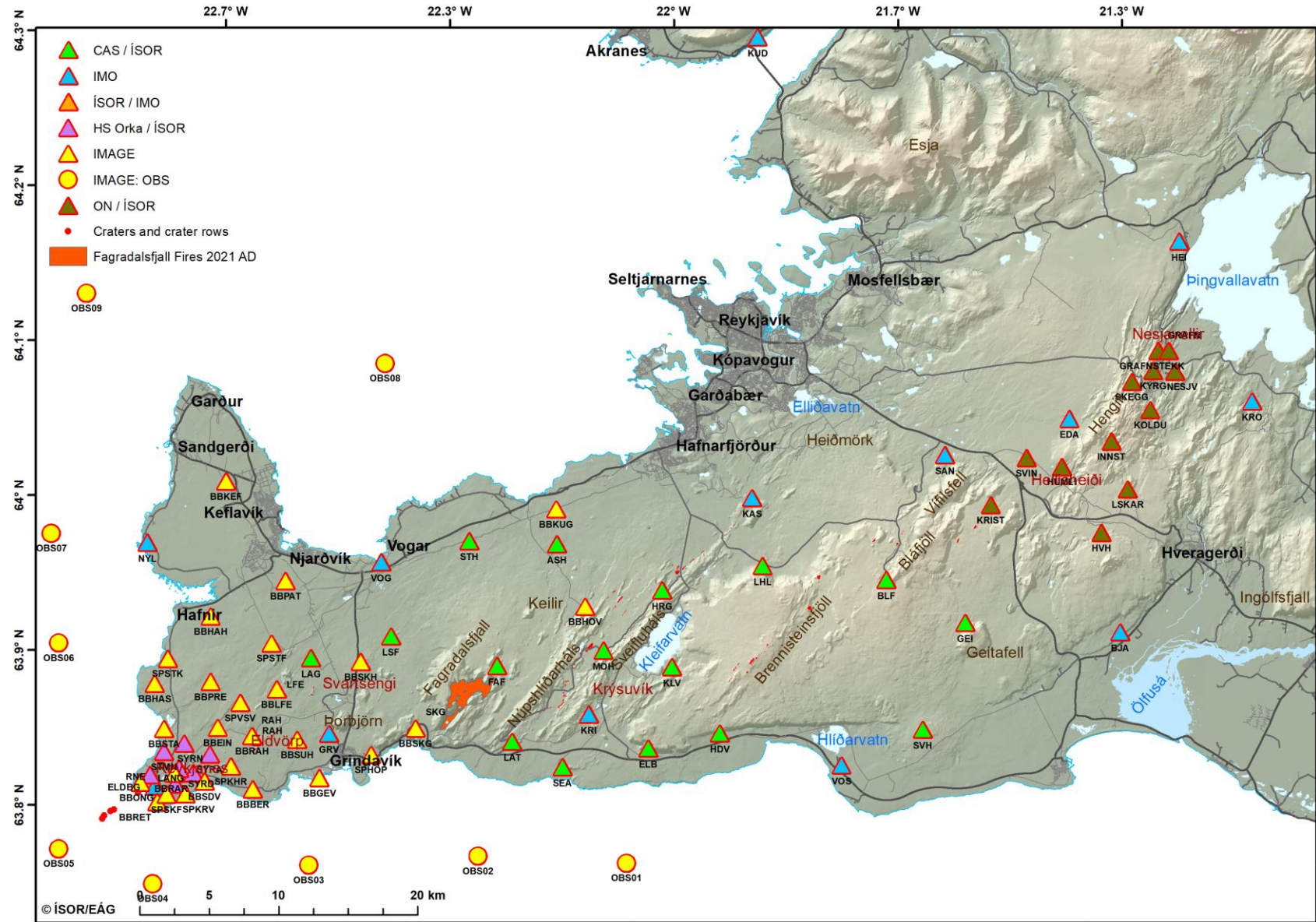
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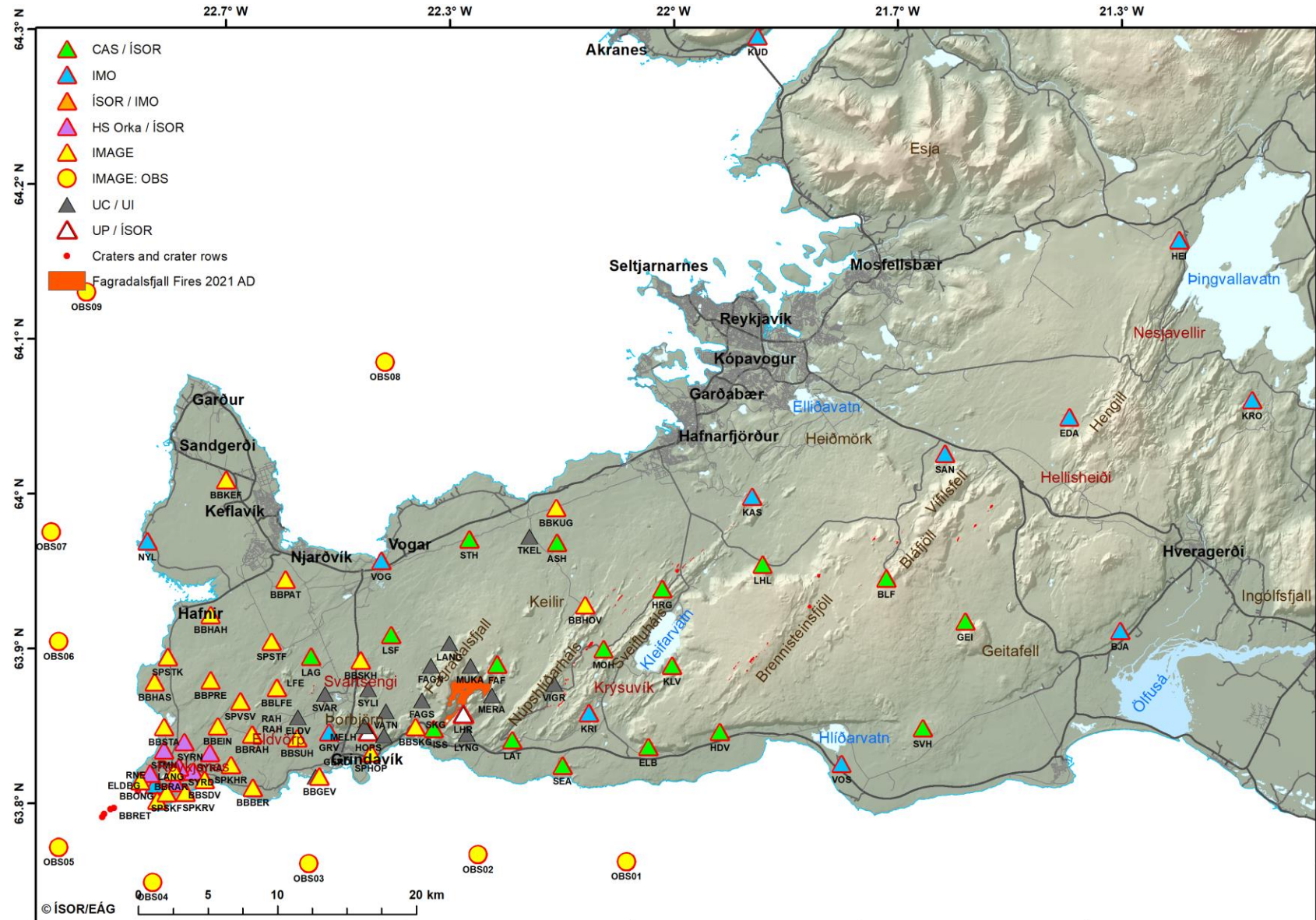
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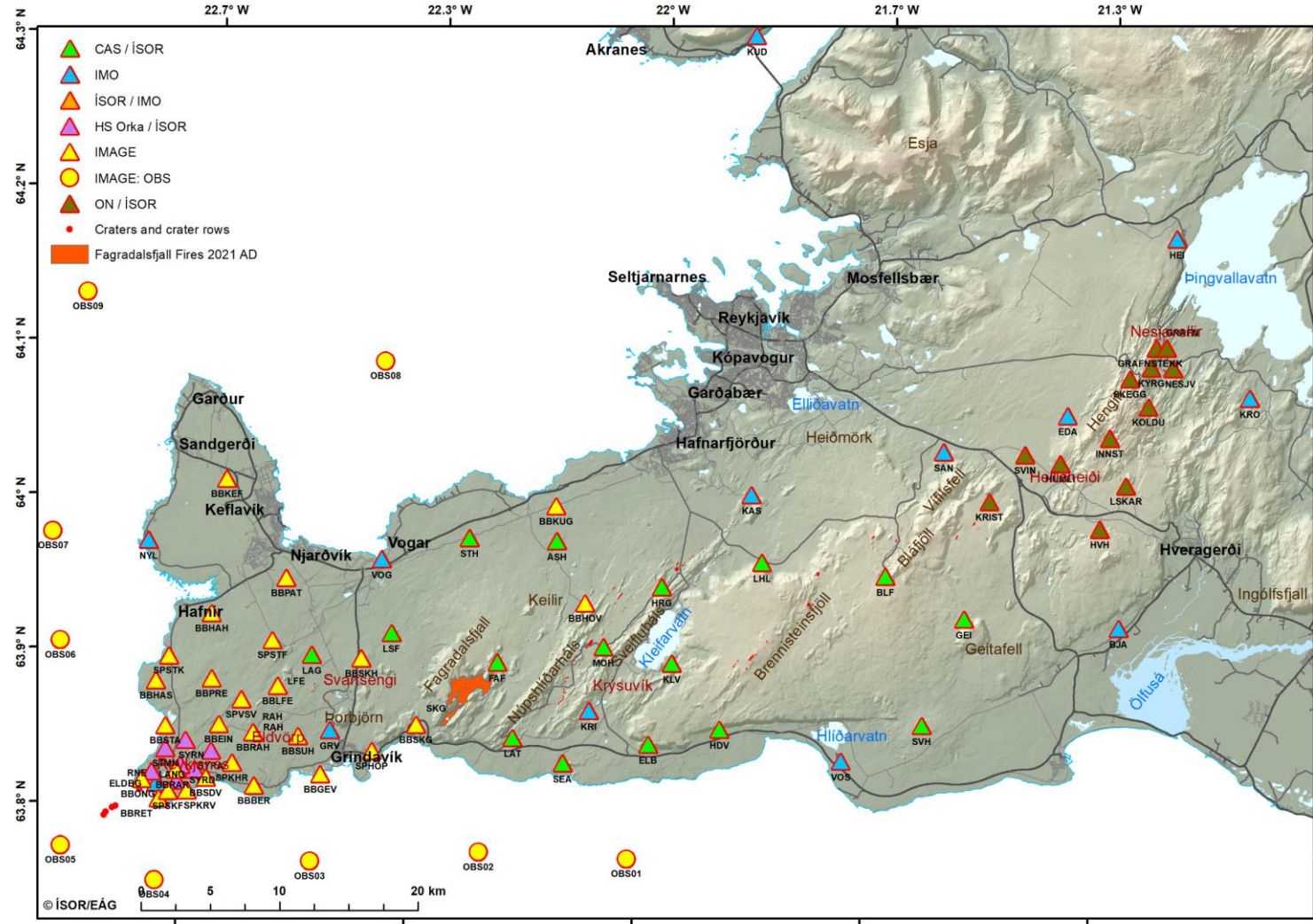
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- **M1: Seismic data archive and structure complete by March 2021 – due October 2021**

Thanks for your attention!



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