

Progress Report No. 1-2007



for

Norwegian National Seismic Network

January 1st to June 30th, 2007.

Supported by

University of Bergen, Faculty of Mathematics and Natural Sciences

and

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Prepared by

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1. Introduction

This progress report, under the project Norwegian National Seismic Network (NNSN), covers the first half of 2007. The purpose is to describe the current technical operation of the stations and the data recorded for the first half of 2007.

2. Operation

The operational stability for each station is shown in Table 1. The average downtime for all stations during this reporting period is 1.6 % compared to 0.6 % in the same time period of 2006. This is acceptable since the goal of average downtime which is below 2%.

Table 1a. Downtime in % for the period 1/1-30/6 2007 for all stations of the NNSN.

Station	Downtime in %
Askøy (ASK)	0
Bergen (BER)	0
Bjørnøya (BJO)	0
Blåsjø (BLS)	0
Dombås (DOMB)	0
Espeland (EGD)	0
Florø (FOO)	0
Hopen (HOPEN)	33
Høyanger (HYA)	0
Jan Mayen BB (JMI)	0
Jan Mayen SP (JMI)	0
Jan Mayen (JNE)	0
Jan Mayen (JNW)	0
Karmøy (KMY)	0
Kautokeino (KTK)	0
Kings Bay (KBS)	0
Kongsberg (KONO)	3.4
Lofoten (LOF)	4.0
Mo i Rana (MOR8)	0
Molde (MOL)	0
Namsos (NSS)	0
Odda (OOD1)	0
Oslo (OSL)	0
Rundemanen (RUND)	0
Snartemo (SNART)	0
Stavanger (STAV)	0
Stokkvågen (STOK)	0
Sulen (SUE)	6
Tromsø (TRO)	0
Average	1.6

3. Field stations and technical service

The technical changes for each seismic station are listed below. It is noted if these changes are not related to a visit from the technical staff at the University of Bergen. When a station stops working, tests are made to locate the problem. Sometimes the reason cannot be found and the cause of the problem will be marked as unknown.

Bjørnøya (BJO1)

No visit or technical changes.

Blåsjø (BLS)

No visit or technical changes.

Florø (FOO)

There has been some connection problems. No data has been lost.
21-22.06.07. Visit. A damping resistance was installed.

Høyanger (HYA)

No visit or technical changes.

Karmøy (KMY)

No visit or technical changes.

Lofoten (LOF)

23-30.03.07. Power failure. Station down for 7 days.
15.05.07. Visit. Replaced accelerometer.

Mo i Rana (MOR8)

No visit or technical changes.

Molde (MOL)

16.01-22.02.07. Bad timing
05-12.04.07. Communication problems.
17.03.07. Communication problems. No data lost.

Namsos (NSS)

No visit or technical changes.

Odda (ODD1)

No visit or technical changes.

Tromsø (TRO)

14.05.07. Visit. Installed Linux system.

Sulen (SUE)

No visit or technical changes.
1-12.02.07. data lost due to no free space on disk.

Kautokeino (KTK)

No visit or technical changes.

Stavanger (STAV)

No visit or technical changes.

WNN network: stations: Bergen (BER), Espegrend (EGD), Ask (ASK)

No visit or technical changes.

Rundemanen (RUND)

No visit or technical changes.

Trondheim (TRON)

04.05.06. Station was closed due to constructions at NGU. The station will be reinstalled. An additional location at Blussvoll skole is also being prepared in parallel. Expected start time for new station is January 2008.

Oslo (OSL)

No visit or technical changes.

Dombås (DOMB)

No visit or technical changes.

Jan Mayen (JMI)

No visit or technical changes.

Kongsberg (KONO)

23.05.07. Replaced the CPU Board s/n 1220164.

05.06.07. Replaced new tape drives.MT0 s/n AA160452, MT1 s/n AA105018.

Kings Bay (KBS)

No visit or technical changes.

Stokkvågen (STOK)

03.05.07.

23.05.07.

12.06.07. Visit

New Sara digitizer (SR04 s/n 041) installed.

Snartemo (SNART)

No visit or technical changes.

Hopen (HOPEN)

07.03.07. Local operator installed new digitizer (SRO 4). After installation the PC was not restarted locally. Data lost between 07.03-10.05.07.

4. Data

The data recorded by the seismic stations were collected and monthly bulletins were prepared and distributed. Figure 1 shows earthquakes and explosions recorded during the first half of 2007 and located within the shown area. Most events are recorded by NNSN stations but also data from NORSTAR and the British Geological Survey (BGS) are included.

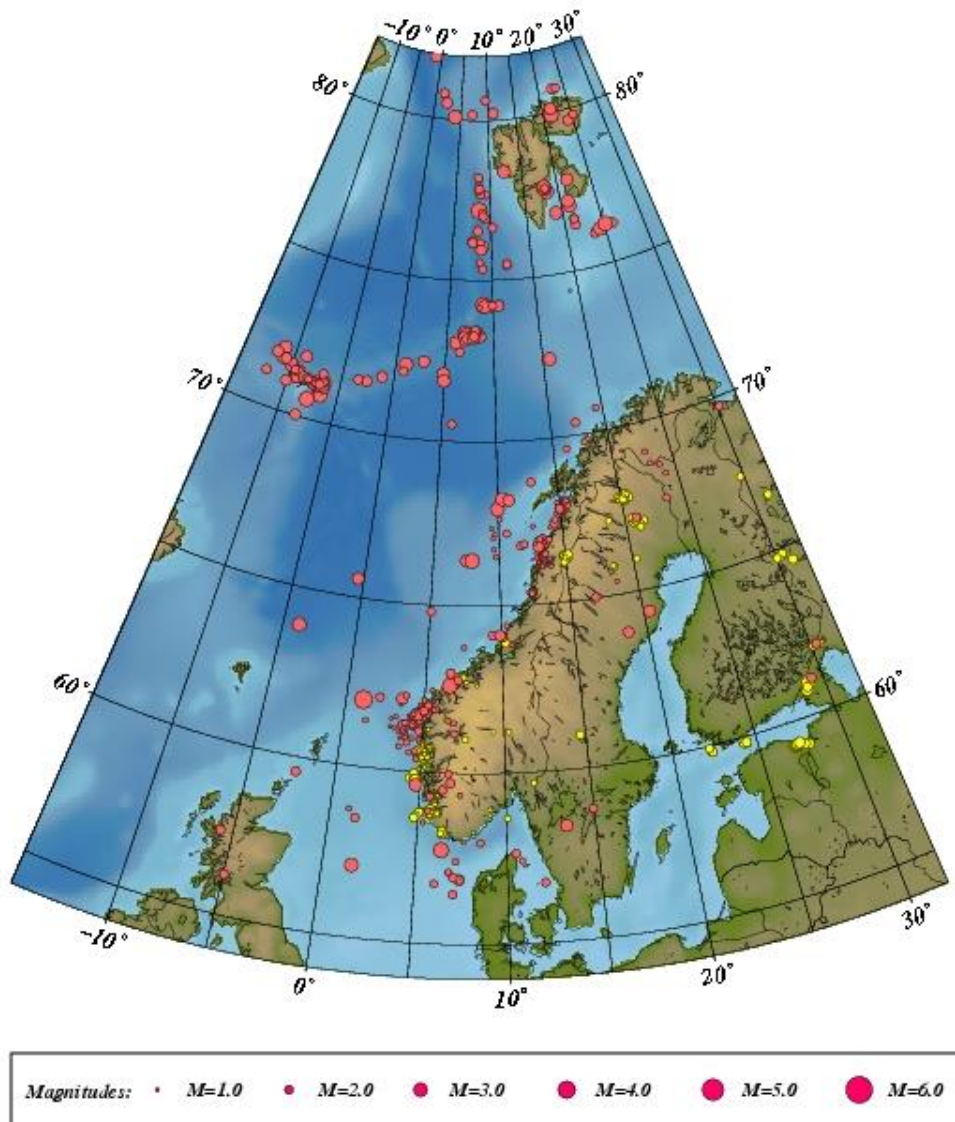


Figure 1. Epicentre distribution of located events recorded during January – June 2007. Earthquakes are plotted in red and presumed and known explosions in yellow.