POLAR GEOPHYSICAL INSTITUTE
RUSSIAN ACADEMY OF SCIENCES

PGI
GEOPHYSICAL DATA

2020
OCTOBER
NOVEMBER
DECEMBER

MURMANSK, APATITY, **RUSSIA**
March, 2021

PGI
GEOPHYSICAL DATA

V. VOROBJEV, editor
V. Burnaeva and N. Kudriashova make-up editors

This bulletin presents the preliminary ground-based optical, geomagnetic and cosmic ray data obtained by Polar Geophysical Institute in the fourth quarter of 2020. All-sky camera observations are published only for the quarters when observations were carried out. All data are available by request.

Reviewer Orlov K.G.
Published since 1996

CONTENTS:

DATA DESCRIPTION

Magnetic data

The magnetograms (H, D, and Z) are plotted as magnetic variations recorded in Loparskaya and Lovozero stations by the three component Bobrov type magnetometer with a sampling frequency of 10 samples per seconds. The instrument has a range ± 2620 nT and a resolution of 5 pT. Magnetic observations are gathered every second and registered in the digital form as the 10-sec averaged data. Digits in the plots at the left hand side denote the scale of the records in nT/div. Timing is provided by the GPS.

Magnetic quiet values for H, D and Z components are shown by dotted line as a daily averaged magnetic activity level for three magnetically quiet days of each month. Quiet days are brand by the symbol Q in tables of geomagnetic K-indices.

Geomagnetic K-indices

The hourly K-indices indicate the level of geomagnetic field disturbance. The maximum deflection of two components H and D from the magnetic quiet value during one hour interval have been recalculated to the value of the local hourly K-index. The following scale has been used:

K-indices	Deflection in nT
0	0-15
1	15-30
2	30-60
3	60-120
4	120-210
5	210-360
6	360-600
7	600-990
8	990-1500
9	1500 and more

Cosmic ray data

The 18-NM-64-neutron monitor has been operating in Apatity since 1969. A plot of pressure corrected hourly data (count accumulated during one hour interval) is presented in units of percent with respect to the monthly mean intensity. Mean values are:

October	421 146
November	420 826
December	416 317

The hourly data are sent to WDC-B2 (Moscow) and WDC-C (Japan).

Please visit **http://pgia.ru/lang/ru/data**

All-sky camera observations

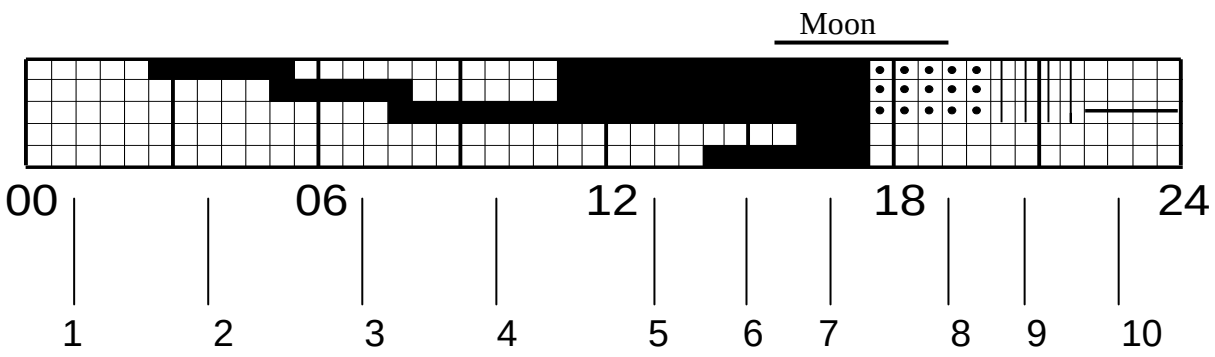
Calendar

Calendar shows the intervals of digital all-sky camera observations in Apatity, Lovozero and Verhnetulomsky, which are available during dark periods from 14:00 UT through midnight to 05:00 UT.

Ascaplots

All-sky camera observations are presented in this bulletin in the form of the standard five lines ascaplot. A detailed description of askaplots interpretation was published in: Annals of International Geophysical Year. V. XX. Part 1. P. 1-5. 1962.

Example of an ascaplot and the legend are given below. Top three lines give information on the existence of aurorae in north, zenith and south ranges of the sky, respectively. The fourth and fifth lines in the standard five lines ascaplot give the zenith range auroral intensity. *We do not use all-sky camera observations to form a correct estimate of the auroral intensity.*



1- no aurora
2- aurora present in north range
3- weak aurora present in zenith range
4- aurora present in south range
5- aurorae present in north, zenith and south ranges
6- medium aurora in zenith, aurorae present in north and south ranges
7- strong aurora in zenith, aurorae present in north and south ranges
8- partial cloudiness
9- total cloudiness
10- no operation

Keograms

Black white keograms show the auroral display along the geomagnetic meridian of station. Here we present a few selected auroral events observed at Apatity, Lovozero and Verhnetulomsky in night-time interval from 17:00 UT to 01:00 UT. Zenith angles are given along the vertical axis. Magnetic north is at the top of the figure.

PLEASE NOTE:

All-sky camera in Verhnetulomsky was not in operation during that quarter because of some technical and service problems in the condition of quarantine.

Coordinates of stations

Stations	Code	Geographic		Corr. Geomagnetic	
		Lat	Long	Lat	Long
Loparskaya	LOP	68.63° N	33.25° E	64.94° N	113.6° E
Verhnetulomsky	VTL	68.59° N	31.75° E	64.92° N	113.0° E
Lovozero	LOZ	67.97° N	35.02° E	64.17° N	115.3° E
Apatity	APT	67.58° N	33.31° E	63.86° N	113.6° E

Please visit

http://pgia.ru/data/

Contact information:

	Phon	*e-mail*
Vyacheslav Vorobjev, Editor	+7-815-55-79-592	*vorobjev@pgia.ru*
Sergei Chernyakov, head of LOP	+7-815-53-48-339	*sergeich@pgi.ru*
Valentin Kosolapenko, head of LOZ	+7-815-238-31-382	*valkos@pgia.ru*

Polar Geophysical Institute

Academgorodok, 26a, APATITY

184209, RUSSIA

GEOMAGNETIC K-INDICES, LOVOZERO
October, 2020
Lower limit of K=9 is 1500 nT

Day	Time, UT 03	06	09	12	15	18	21	24	
1	2 2 2	0 1 0	2 2 1	- - 1	2 2 3	2 4 3	4 3 2	2 4 4	
2	4 3 2	1 1 1	1 1 1	0 1 1	2 1 1	3 3 3	2 5 4	2 3 3	
3	2 2 1	1 0 0	0 0 0	1 1 1	0 0 0	0 0 0	2 1 0	1 1 0	
4	0 0 0	0 0 1	0 0 1	1 1 1	1 0 0	1 0 0	0 0 1	1 1 1	Q
5	0 0 0	0 0 0	0 0 1	1 1 1	2 2 3	4 3 4	2 6 6	5 4 3	
6	3 3 3	2 3 3	1 1 0	0 1 1	1 1 1	0 0 0	0 1 2	1 0 0	
7	0 0 0	0 0 0	0 0 0	0 1 1	1 1 1	1 1 1	0 0 2	2 2 0	
8	0 0 0	0 0 0	1 0 0	0 1 1	0 0 0	0 0 1	1 0 0	1 1 0	
9	0 0 0	0 0 0	1 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	Q
10	0 0 0	0 0 0	0 0 0	1 1 1	0 0 0	0 0 0	0 0 0	0 0 0	
11	0 0 0	0 0 0	0 0 0	0 0 0	1 0 0	0 0 0	0 1 1	2 1 0	
12	0 0 0	0 0 0	0 0 0	0 0 1	1 0 0	0 0 0	0 0 1	3 2 2	
13	0 1 1	0 0 0	0 0 1	0 0 1	1 0 0	0 0 0	0 0 0	0 0 0	
14	0 0 0	0 0 0	0 1 1	1 1 0	0 0 0	0 0 0	0 0 0	0 0 0	
15	0 0 0	0 0 0	0 1 1	1 1 1	0 0 0	0 0 0	0 0 0	0 1 1	
16	0 0 0	0 0 0	0 0 1	1 1 1	1 0 0	0 0 0	0 0 0	2 2 2	
17	0 0 0	0 0 0	1 1 1	1 1 2	2 1 1	1 0 0	0 0 0	0 0 1	Q
18	0 0 0	0 0 0	0 0 1	1 1 1	1 0 0	0 0 0	0 0 0	1 1 1	
19	0 0 0	1 0 0	0 0 1	1 1 1	1 1 2	1 0 0	3 3 2	1 3 2	
20	1 1 1	1 1 0	1 1 1	1 1 0	0 0 0	0 0 1	1 1 1	1 1 1	
21	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	0 1 2	2 1 1	1 1 3	
22	4 1 1	1 1 1	0 0 0	0 0 0	0 0 0	0 0 1	1 2 3	3 2 1	
23	1 1 1	1 1 1	1 0 0	0 0 0	0 1 1	1 1 2	2 1 6	6 5 7	
24	5 4 4	3 2 2	2 2 2	2 1 1	1 2 3	3 2 3	3 2 5	5 2 2	
25	3 3 2	1 1 1	1 1 2	2 2 2	5 5 3	3 4 5	4 6 6	4 1 1	
26	1 1 1	2 3 3	2 2 2	2 1 3	3 5 3	3 2 3	4 4 3	3 5 5	
27	4 1 2	1 1 1	1 2 2	2 1 1	0 0 1	1 1 1	2 3 2	1 2 3	
28	1 1 1	1 1 1	1 0 1	1 0 1	1 3 3	4 3 1	5 4 5	3 3 2	
29	1 0 0	0 0 0	1 1 1	2 2 2	1 1 2	4 4 3	2 1 1	4 4 4	
30	3 0 0	1 0 0	0 1 1	1 1 1	1 0 0	0 0 0	0 0 2	3 4 4	
31	0 0 0	0 0 0	0 1 2	1 2 2	2 3 3	4 4 2	0 0 1	1 1 1	

GEOMAGNETIC K-INDICES, LOVOZERO
November, 2020
Lower limit of K=9 is 1500 nT

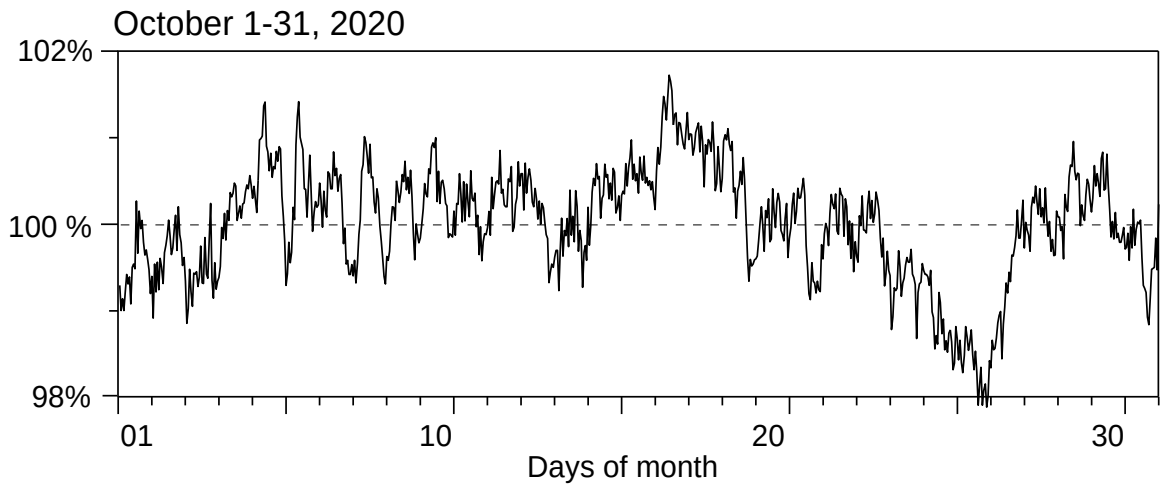
Day	Time, UT 03	06	09	12	15	18	21	24	
1	0 0 0	0 0 0	0 1 1	2 2 1	0 3 3	3 3 4	3 3 3	3 2 0	
2	0 0 0	0 0 0	0 0 0	0 1 0	0 0 0	0 0 0	0 0 1	2 1 0	
3	0 1 0	0 0 0	0 0 0	1 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
4	0 0 0	0 0 0	0 0 0	0 1 0	0 0 0	0 0 0	0 0 0	0 0 0	Q
5	0 0 0	0 0 0	0 0 0	1 1 1	0 0 1	0 0 0	0 0 0	0 2 1	
6	0 0 0	0 0 0	0 0 1	0 1 1	1 1 1	2 3 3	3 1 1	1 2 1	
7	1 1 0	0 0 0	0 0 0	1 1 0	0 0 0	0 0 4	3 0 3	3 2 0	
8	0 1 0	0 0 0	1 1 0	0 0 0	0 0 0	0 2 2	1 0 0	0 0 0	
9	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
10	0 0 0	0 - -	- - -	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
11	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 1 2	1 0 2	2 2 2	
12	2 0 0	0 0 0	0 0 0	1 0 0	0 0 0	0 0 0	0 0 0	1 1 0	
13	0 0 0	0 0 0	0 0 0	0 0 0	0 0 -	0 0 0	0 1 0	1 1 0	Q
14	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	3 2 2	0 1 1	
15	1 1 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
16	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	Q
17	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 1	
18	1 1 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 1 1	1 1 0	
19	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 2 2	
20	2 3 2	1 1 0	1 1 1	0 1 1	0 1 0	0 0 1	1 3 2	0 0 0	
21	0 1 1	0 0 0	0 0 0	0 0 1	1 3 2	3 4 3	0 1 6	6 7 7	
22	5 2 1	1 2 2	3 1 3	4 2 3	4 3 5	5 5 4	5 5 5	5 5 2	
23	1 0 1	1 1 2	1 1 1	1 1 1	0 0 1	0 2 2	0 2 3	3 0 0	
24	0 0 1	1 0 0	0 0 0	0 0 1	0 0 0	0 1 2	0 0 0	0 0 1	
25	1 0 0	0 0 0	0 0 0	0 0 1	0 1 2	1 1 4	3 3 3	5 4 5	
26	3 0 0	0 0 0	0 0 0	1 0 0	1 0 2	0 0 0	3 2 2	3 3 1	
27	0 0 0	0 0 0	1 1 1	1 1 1	2 2 1	0 0 0	0 0 0	0 0 1	
28	3 3 2	1 0 1	1 0 0	1 1 1	1 1 1	0 2 2	1 2 3	2 1 0	
29	0 0 0	0 0 0	0 0 0	1 0 1	1 2 2	0 0 0	0 0 0	0 0 0	
30	0 0 1	0 0 1	1 2 1	1 1 0	0 0 0	0 0 0	0 0 0	1 2 1	

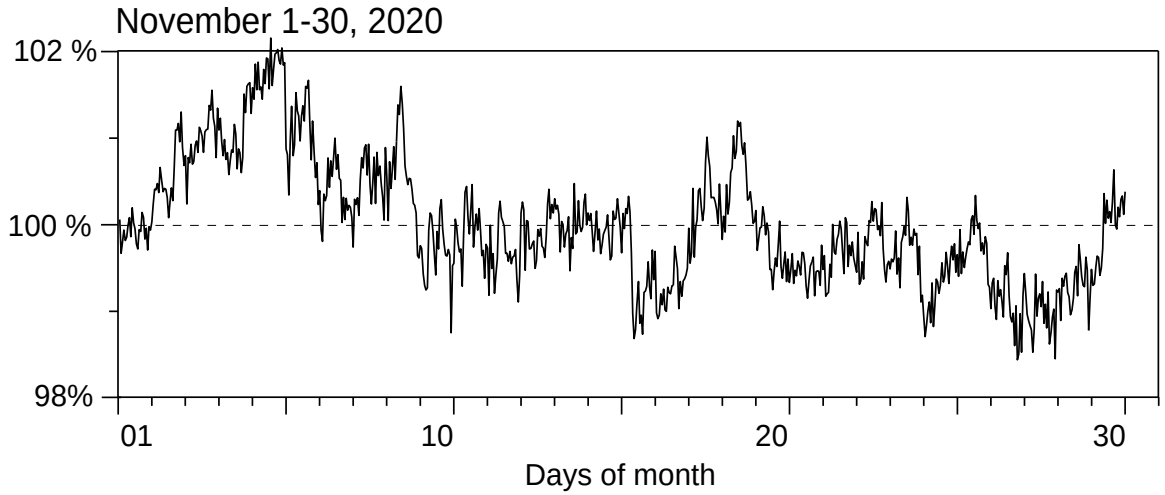
GEOMAGNETIC K-INDICES, LOVOZERO

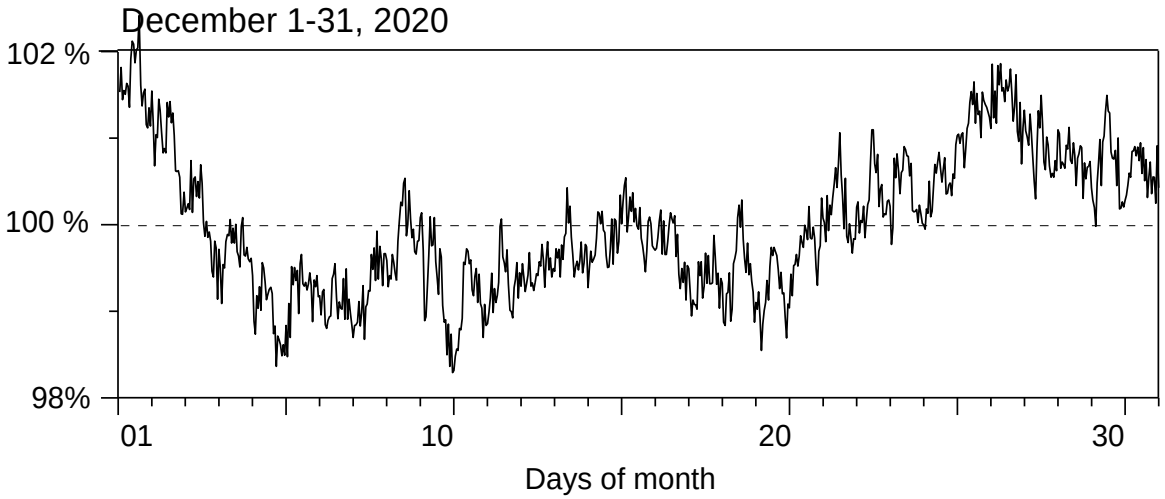
December, 2020
Lower limit of K=9 is 1500 nT

	Time, UT								
	03	06	09	12	15	18	21	24	
Day									
1	1 2 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
2	0 0 0	0 0 0	0 0 0	1 0 0	0 0 0	0 0 0	0 0 0	0 0 0	Q
3	0 0 0	0 0 0	0 0 0	0 0 0	0 0 1	1 2 0	0 0 0	0 0 0	
4	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
5	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 1 3	1 0 1	
6	1 0 0	0 0 0	0 0 0	0 0 0	0 1 0	0 0 0	0 0 3	3 2 0	
7	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 1	1 0 0	0 0 0	Q
8	0 0 0	0 0 0	0 0 0	0 0 0	1 0 0	0 0 0	1 1 1	0 2 3	
9	2 1 0	0 0 0	1 1 0	0 1 0	0 0 0	0 1 3	4 4 2	3 3 3	
10	- 0 2	0 1 0	0 0 0	0 1 1	1 0 0	0 0 0	1 2 1	3 2 1	
11	1 3 3	1 0 0	0 0 0	0 0 0	0 0 0	0 1 2	1 0 3	2 1 0	
12	0 1 1	0 0 0	0 0 0	0 1 0	0 0 0	0 0 0	0 0 0	2 1 1	
13	2 3 3	1 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 2	2 1 1	
14	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 1 1	2 1 0	0 1 1	
15	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 1	1 0 0	
16	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 1 0	0 0 1	
17	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	Q
18	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
19	1 1 0	0 0 0	0 0 0	1 1 1	1 1 0	0 0 0	1 1 2	1 0 0	
20	1 0 0	0 0 0	0 0 0	0 0 0	1 0 0	0 2 0	0 0 1	2 2 0	
21	0 0 1	2 1 0	0 0 0	1 1 1	1 1 1	0 0 0	0 2 3	5 5 6	
22	2 3 3	3 2 1	0 2 1	1 1 1	1 2 3	3 1 0	2 3 3	2 2 2	
23	1 2 3	3 1 1	0 0 0	0 0 1	1 2 1	1 0 1	1 2 1	3 3 2	
24	0 0 0	1 1 1	1 0 1	1 1 1	2 2 1	4 2 0	0 1 1	1 2 2	
25	2 1 0	0 0 0	0 0 0	0 0 0	1 1 1	0 0 0	0 0 0	0 0 0	
26	0 1 0	0 1 1	1 0 0	1 1 1	1 1 1	1 1 1	1 0 3	2 0 0	
27	0 1 1	1 1 1	0 0 0	0 1 1	1 1 1	1 1 1	2 1 2	4 1 2	
28	3 3 2	2 1 0	0 0 1	1 1 1	0 0 1	0 0 0	0 0 3	1 1 1	
29	3 2 1	2 0 0	0 0 0	1 0 0	0 0 0	0 0 1	1 1 1	2 2 2	
30	2 2 3	2 2 0	0 0 0	1 1 1	1 1 0	1 0 0	0 1 2	1 4 2	
31	2 2 1	0 1 1	0 0 0	0 0 0	0 0 0	0 0 2	0 0 1	1 1 1	

Apatity neutron monitor







ALL – SKY CAMERA OBSERVATIONS

October - December 2020

CALENDAR OF**TV** OBSERVATIONS

October 01 - 02

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ			—	—	—	—	—	—	—	—	—	—	—	—		
APT																

October 02 - 03

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ		—	—	—	—	—	—	—	—	—	—	—	—	—		
APT																

October 03 - 04

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ		—	—	—	—	—	—	—	—	—	—	—	—	—		
APT																

October 04 - 05

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ		—	—	—	—	—	—	—	—	—	—	—	—	—		
APT																

October 05- 06

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ		—	—	—	—	—	—	—	—	—	—	—	—	—		
APT																

October 06 - 07

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ				—	—	—	—	—	—	—	—	—	—	—		
APT																

October 07 - 08

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ							—	—	—	—	—	—	—			
APT																

October 08 - 09

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ		—														
APT																

CALENDAR OF**TV** OBSERVATIONS

October 09 -10

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ			—	—												
APT																

October 10 -11

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ													—	—		
APT																

October 11 - 12

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ		—	—	—	—	—	—	—	—	—	—	—	—	—	—	
APT																

October 12 - 13

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ		—	—	—	—	—	—	—	—	—	—	—	—	—	—	
APT																

October 13 - 14

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
APT																

October14- 15

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
APT			—	—	—	—	—	—	—	—	—	—	—			

October 15 - 16

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
APT											—	—	—			

October 16 - 17

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
APT			—	—	—	—	—	—	—	—	—	—	—			

CALENDAR OF**TV** OBSERVATIONS

October 17 - 18

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—														—	
APT			—	—	—	—	—	—	—	—	—	—	—			

October 18 - 19

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—														—	
APT			—	—	—	—	—	—	—	—	—	—	—			

October 19 - 20

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—														—	
APT			—	—	—	—	—	—	—	—	—	—	—			

October 20 - 21

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—														—	
APT			—	—	—	—	—	—	—	—	—	—	—	—		

October 21 - 22

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—														—	
APT		—	—	—	—	—	—	—	—	—	—	—	—	—		

October22- 23

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—														—	
APT		—	—	—	—	—	—	—	—	—	—	—	—	—		

October 23 - 24

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—														—	
APT		—	—	—	—	—	—	—	—	—	—	—	—	—		

October 24 - 25

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—														—	
APT		—	—	—	—	—	—	—	—	—	—	—	—	—		

CALENDAR OF**TV** OBSERVATIONS

October 25 - 26

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT		—	—	—	—	—	—	—	—	—	—	—	—	—		

October 26 -27

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT		—	—	—	—	—	—	—	—	—	—	—	—	—		

October 27 - 28

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ		—	—	—			—	—	—	—	—	—	—	—	—	—
APT		—	—	—	—	—	—	—	—	—	—	—	—	—		

October 28 - 29

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
APT		—	—	—	—	—	—	—	—	—	—	—	—	—		

October 29 - 30

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
APT		—	—	—	—	—	—	—	—	—	—	—	—	—		

October30 - 31

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
APT		—	—	—	—	—	—	—	—							

October 31

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—	—	—	—	—	—	—	—	—	—						
APT																

CALENDAR OF**TV** OBSERVATIONS

November 01 - 02

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
APT																

November 02 - 03

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—															
APT																

November 03 - 04

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ		—	—	—	—	—	—	—	—							
APT																

November 04 - 05

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—															
APT																

November05- 06

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ		—														
APT																

November 06 - 07

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ			—	—	—	—	—	—	—	—	—	—	—	—	—	—
APT																

November 07 - 08

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
APT																

November 08 - 09

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
APT																

CALENDAR OF**TV** OBSERVATIONS

November 09 - 10

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
APT																

November 10 -11

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—															
APT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

November 11 - 12

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—															
APT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

November 12 - 13

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—															
APT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

November 13 - 14

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—															
APT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

November 14- 15

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—															
APT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

November 15 - 16

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—															
APT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

November 16 - 17

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ	—															
APT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

CALENDAR OF**TV** OBSERVATIONS

November 17 - 18

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

November 18 - 19

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

November 19 - 20

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

November 20 - 21

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

November 21 - 22

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

November 22- 23

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

November 23 - 24

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

November 24 - 25

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

CALENDAR OF**TV** OBSERVATIONS

November 25 - 26

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

November 26 -27

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

November 27 - 28

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

November 28 - 29

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

November 29 - 30

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

November 30

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

CALENDAR OF**TV** OBSERVATIONS

December 01 - 02

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 02 - 03

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 03 - 04

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 04 - 05

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 05- 06

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 06 - 07

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 07 - 08

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 08 - 09

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

CALENDAR OF**TV** OBSERVATIONS

December 09 - 10

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 10 -11

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 11 - 12

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 12 - 13

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 13 - 14

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 14- 15

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 15 - 16

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 16 - 17

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

CALENDAR OF**TV** OBSERVATIONS

December 17 - 18

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 18 - 19

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 19 - 20

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 20 - 21

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 21 - 22

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 22- 23

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 23 - 24

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 24 - 25

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

CALENDAR OF**TV** OBSERVATIONS

December 25 - 26

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 26 -27

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 27 - 28

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 28 - 29

UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

December 29 - 30

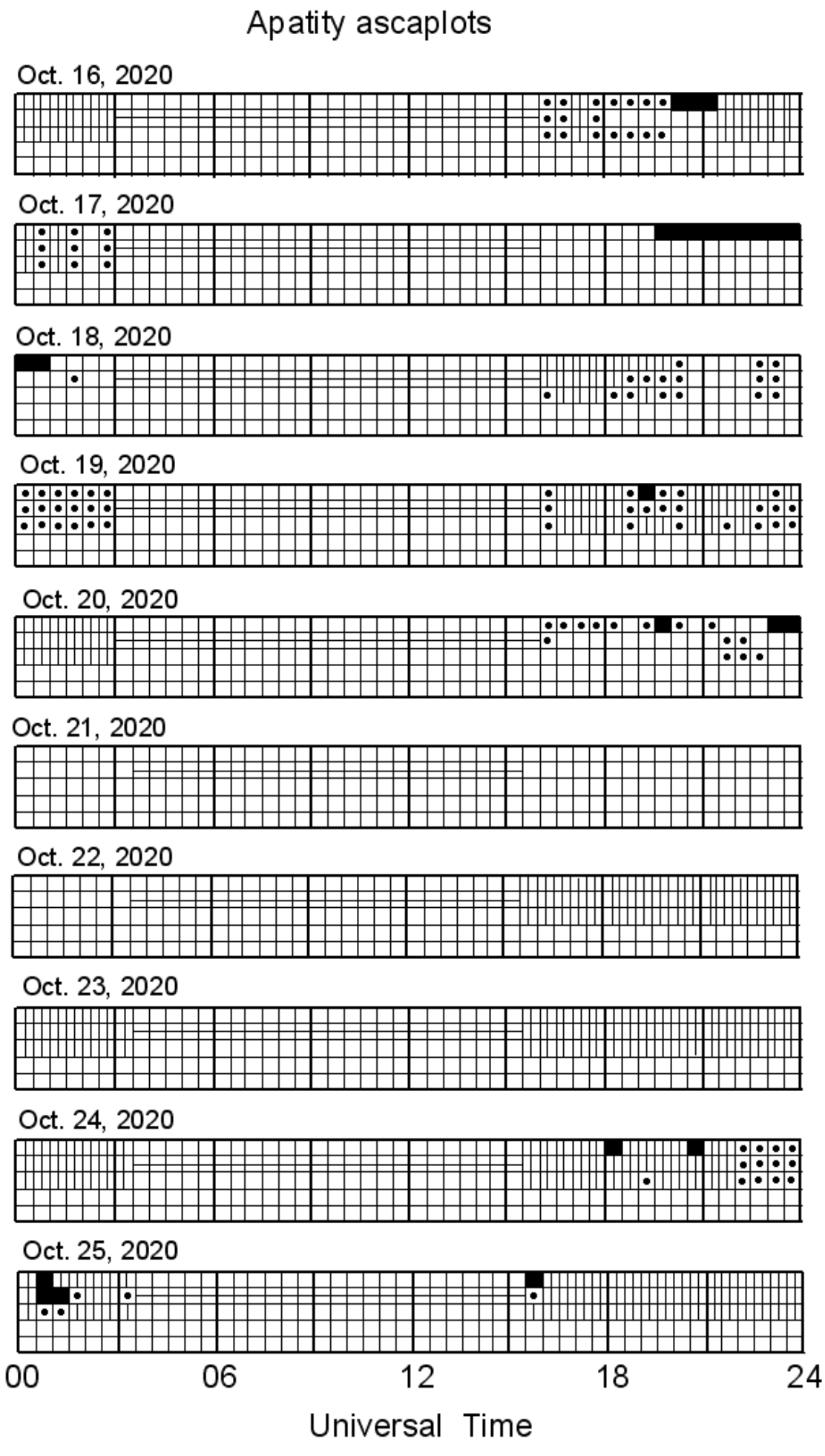
UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

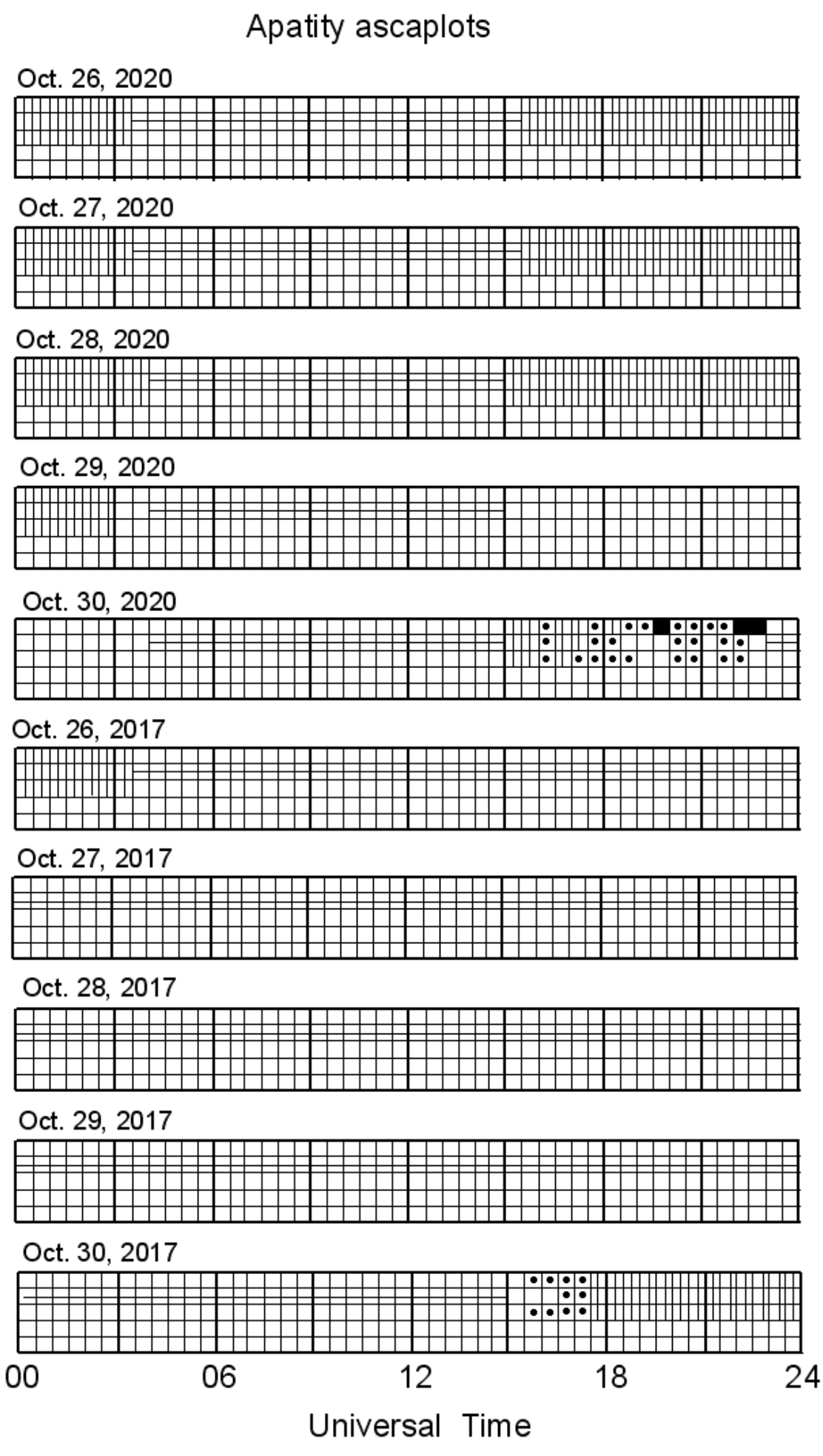
December 30 - 31

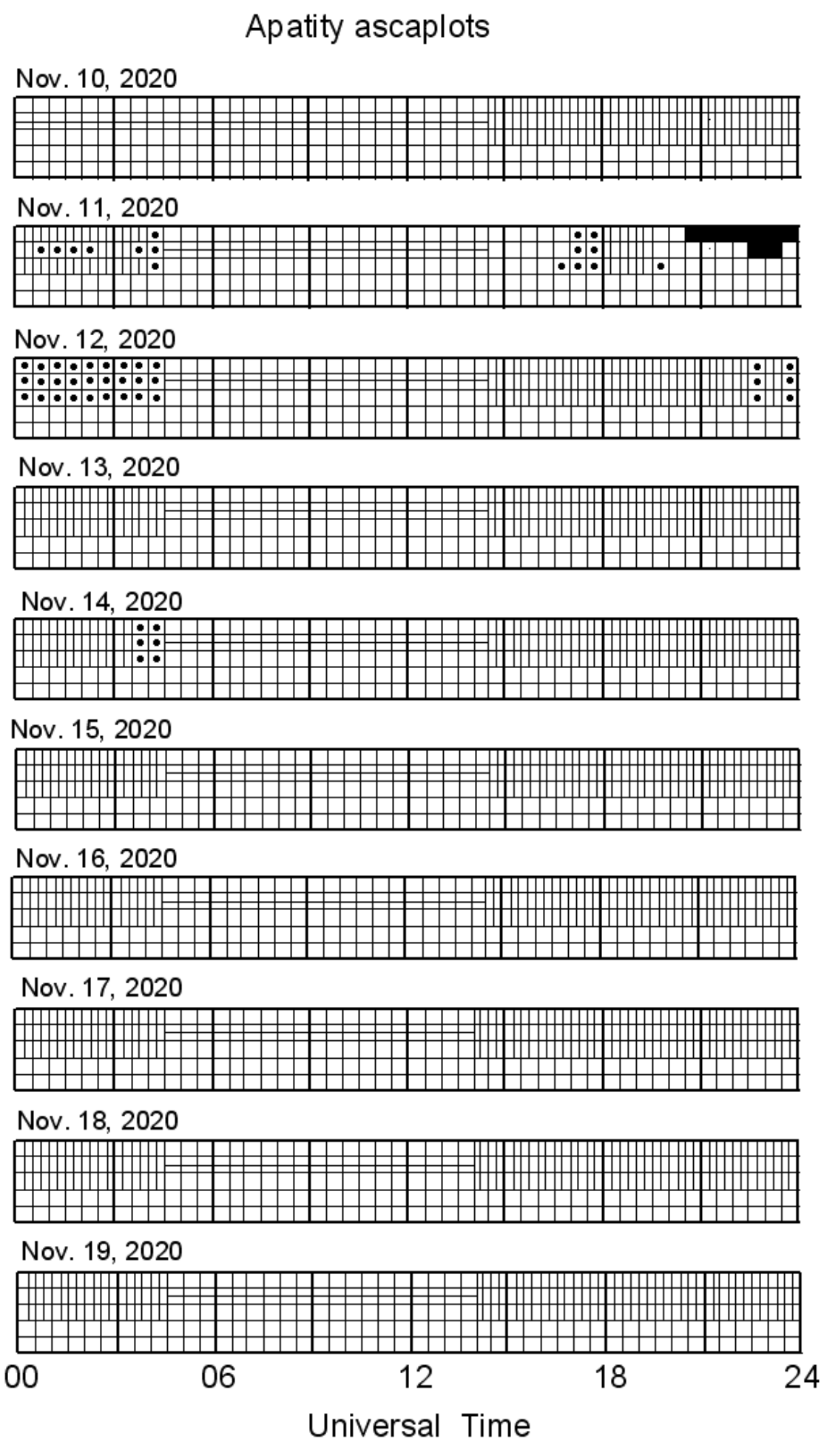
UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

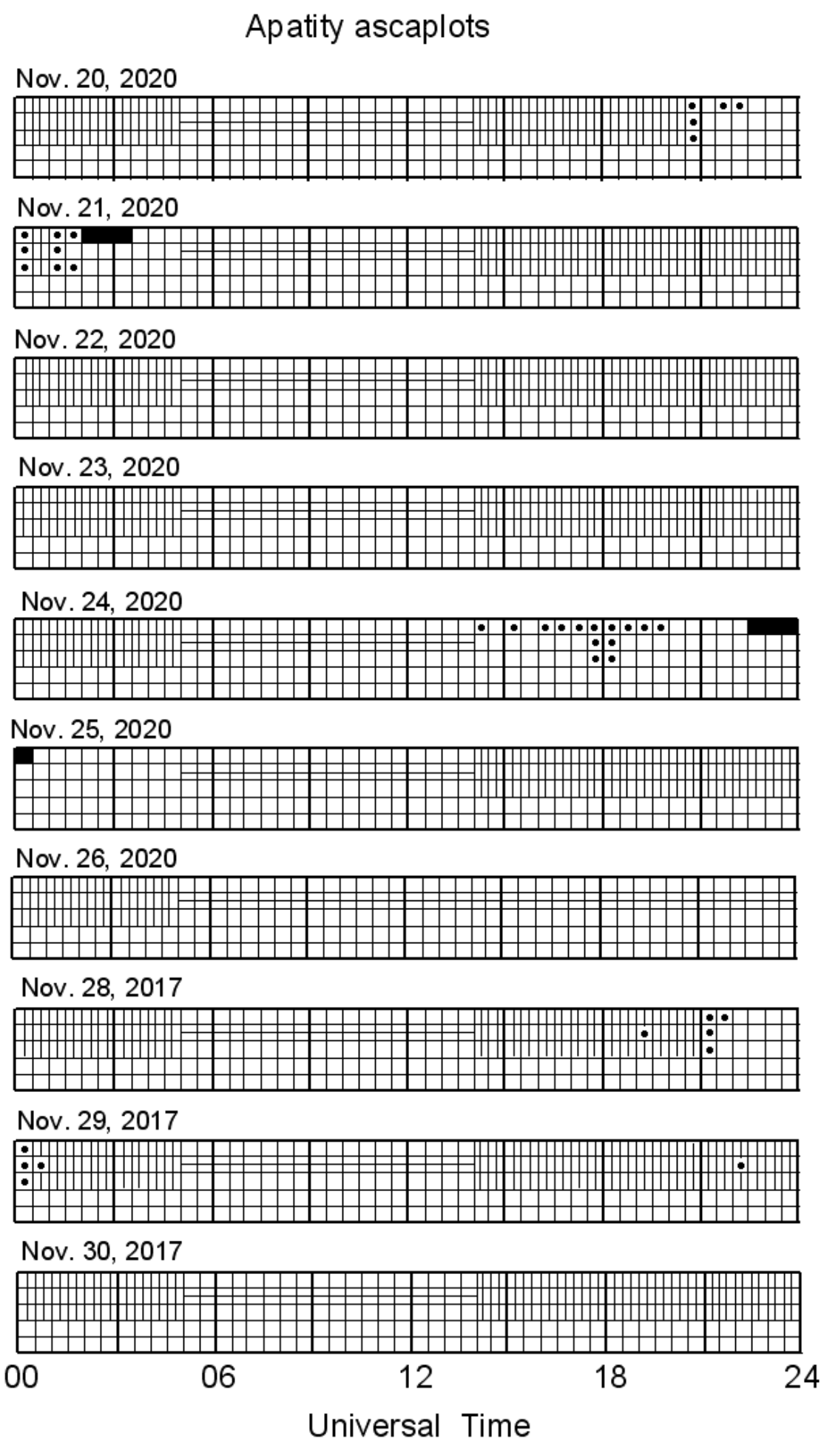
December31

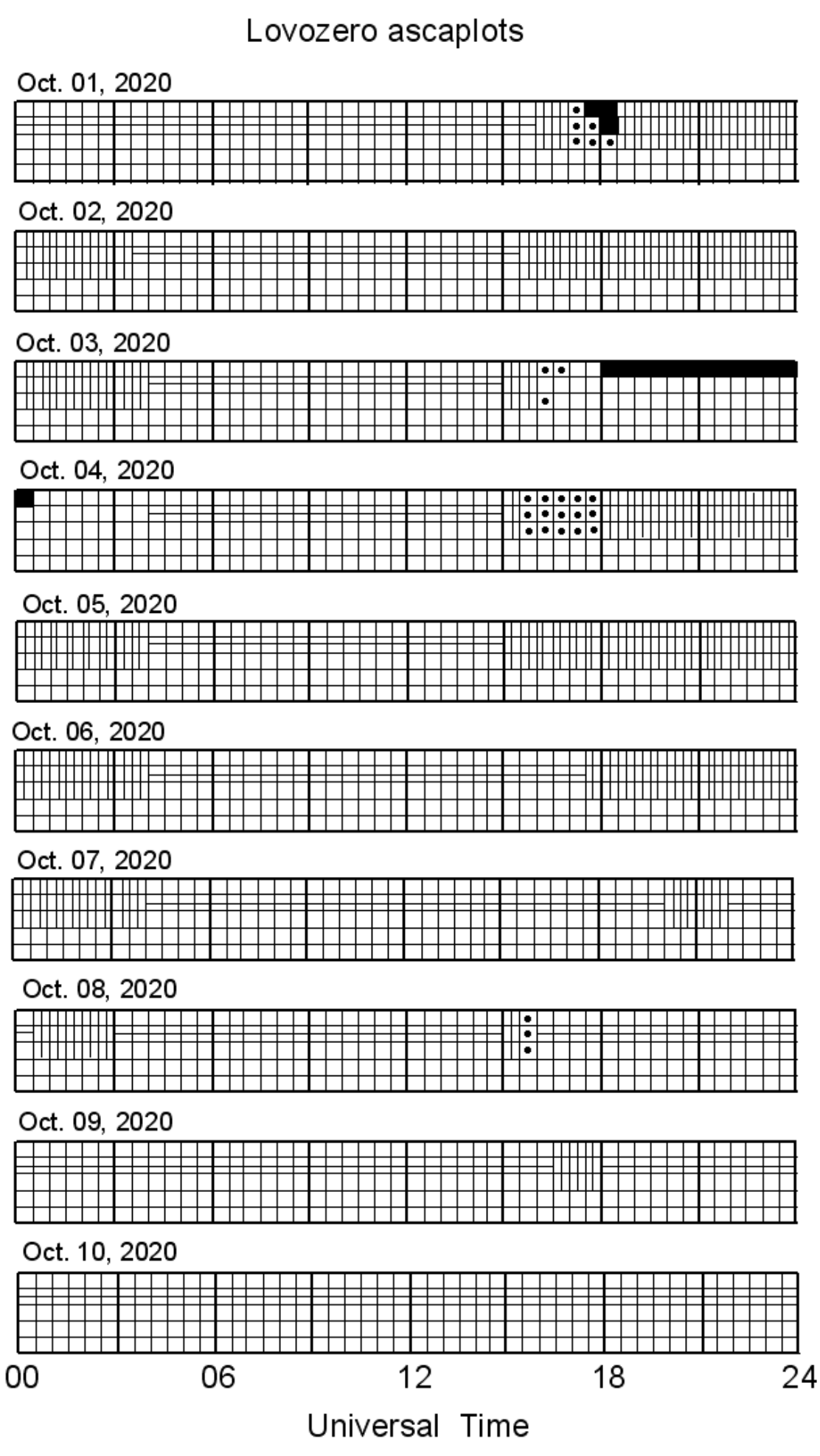
UT	14	15	16	17	18	19	20	21	22	23	24	01	02	03	04	05
LOZ																
APT																

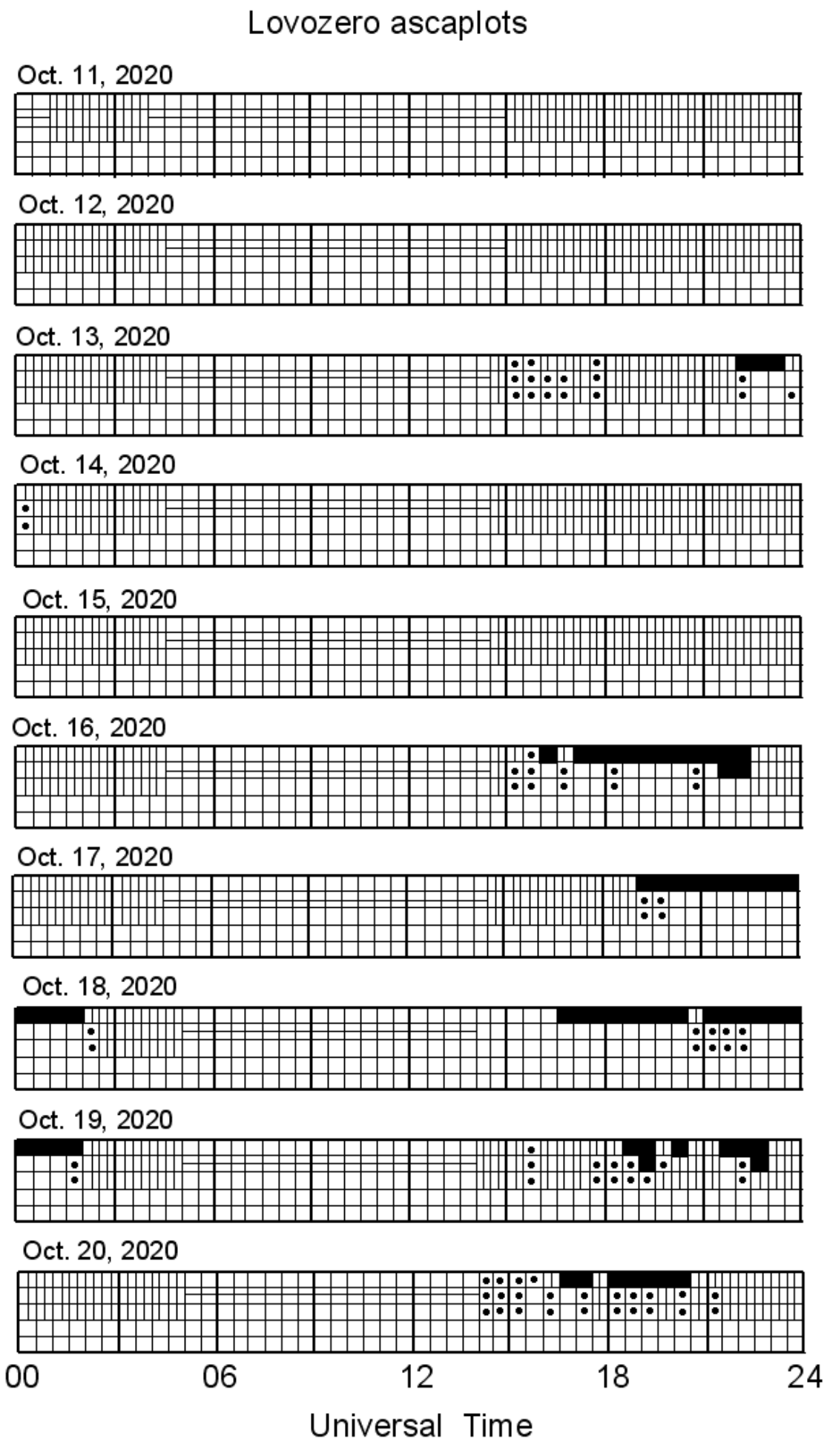

Apatity ascaplots
Oct. 16, 2020
Oct. 17, 2020
Oct. 18, 2020
Oct. 19, 2020
Oct. 20, 2020
Oct. 21, 2020
Oct. 22, 2020
Oct. 23, 2020
Oct. 24, 2020
Oct. 25, 2020
00
06
12
18
24
Universal Time

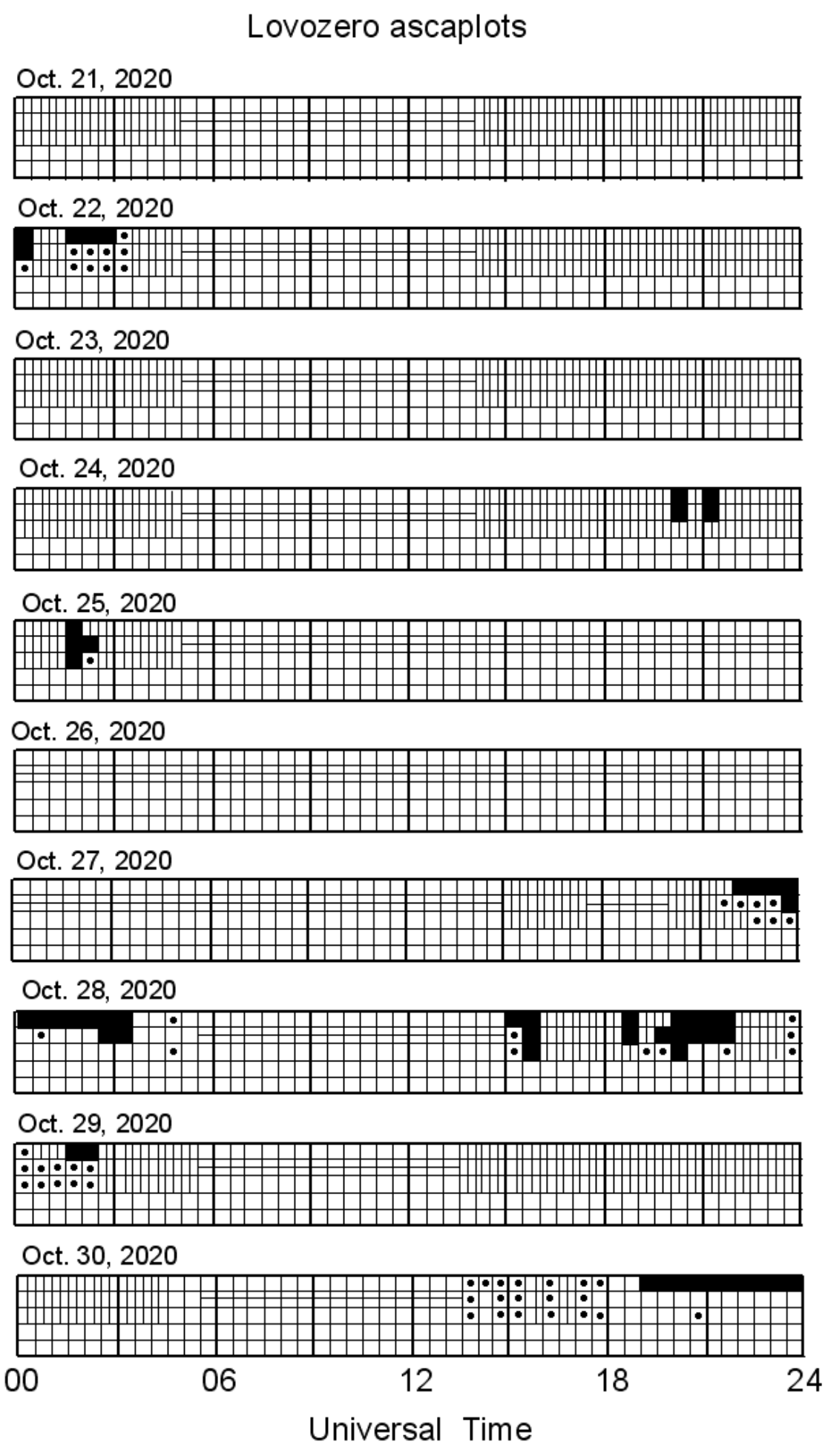

Apatity ascaplots
Oct. 26, 2020
Oct. 27, 2020
Oct. 28, 2020
Oct. 29, 2020
Oct. 30, 2020
Oct. 26, 2017
Oct. 27, 2017
Oct. 28, 2017
Oct. 29, 2017
Oct. 30, 2017
00
06
12
18
24
Universal Time

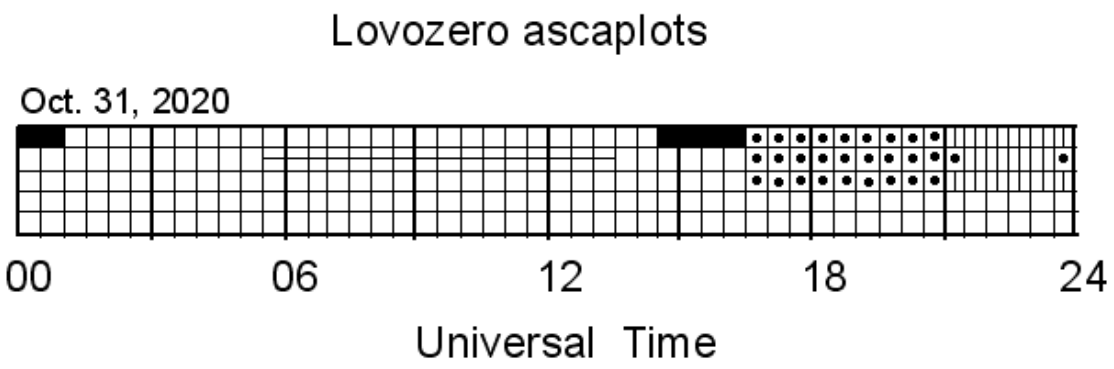

Apatity ascaplots
Nov. 10, 2020
Nov. 11, 2020
Nov. 12, 2020
Nov. 13, 2020
Nov. 14, 2020
Nov. 15, 2020
Nov. 16, 2020
Nov. 17, 2020
Nov. 18, 2020
Nov. 19, 2020
00
06
12
18
24
Universal Time

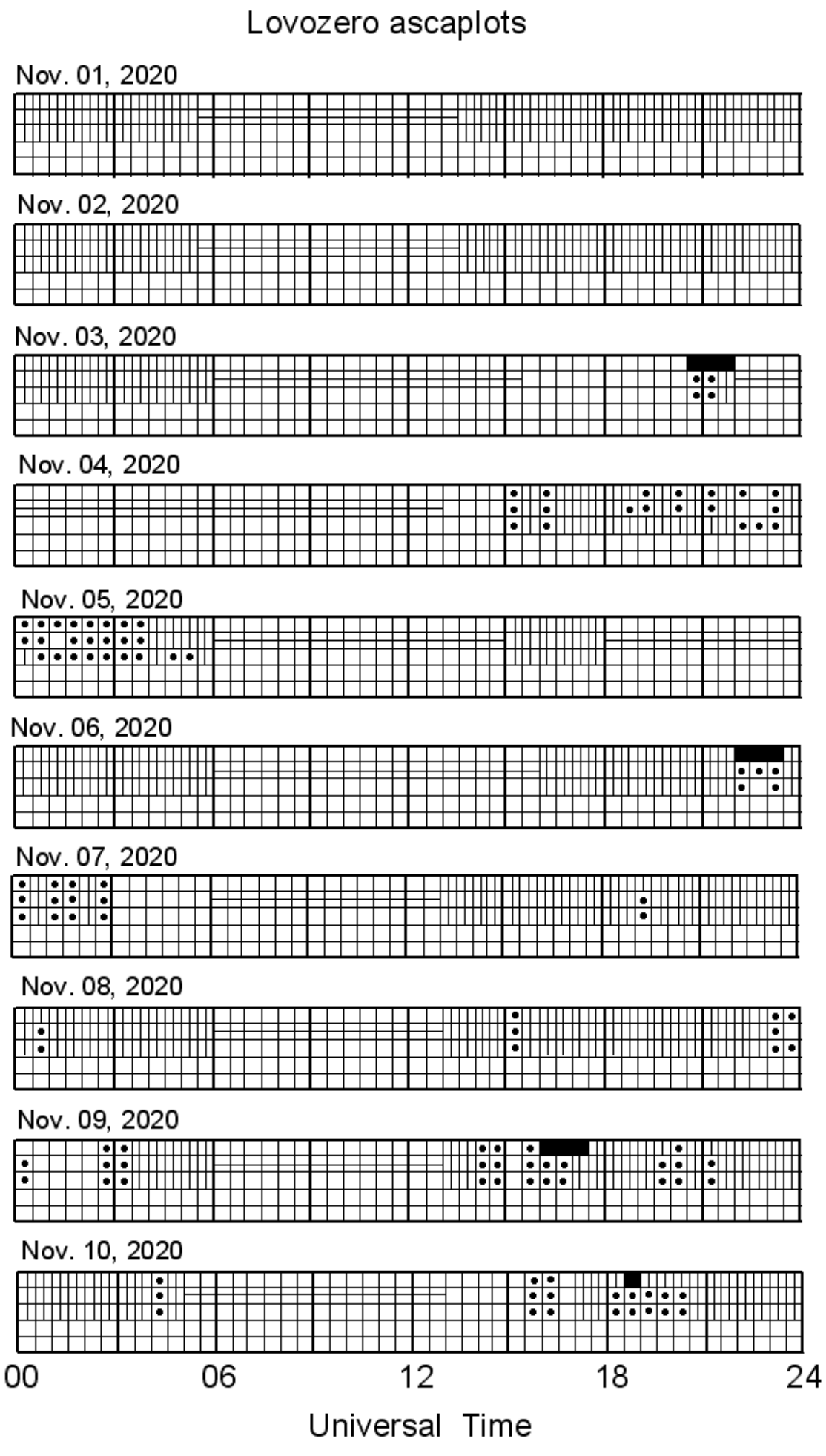

Apatity ascaplots
Nov. 20, 2020
Nov. 21, 2020
Nov. 22, 2020
Nov. 23, 2020
Nov. 24, 2020
Nov. 25, 2020
Nov. 26, 2020
Nov. 28, 2017
Nov. 29, 2017
Nov. 30, 2017
00
06
12
18
24
Universal Time

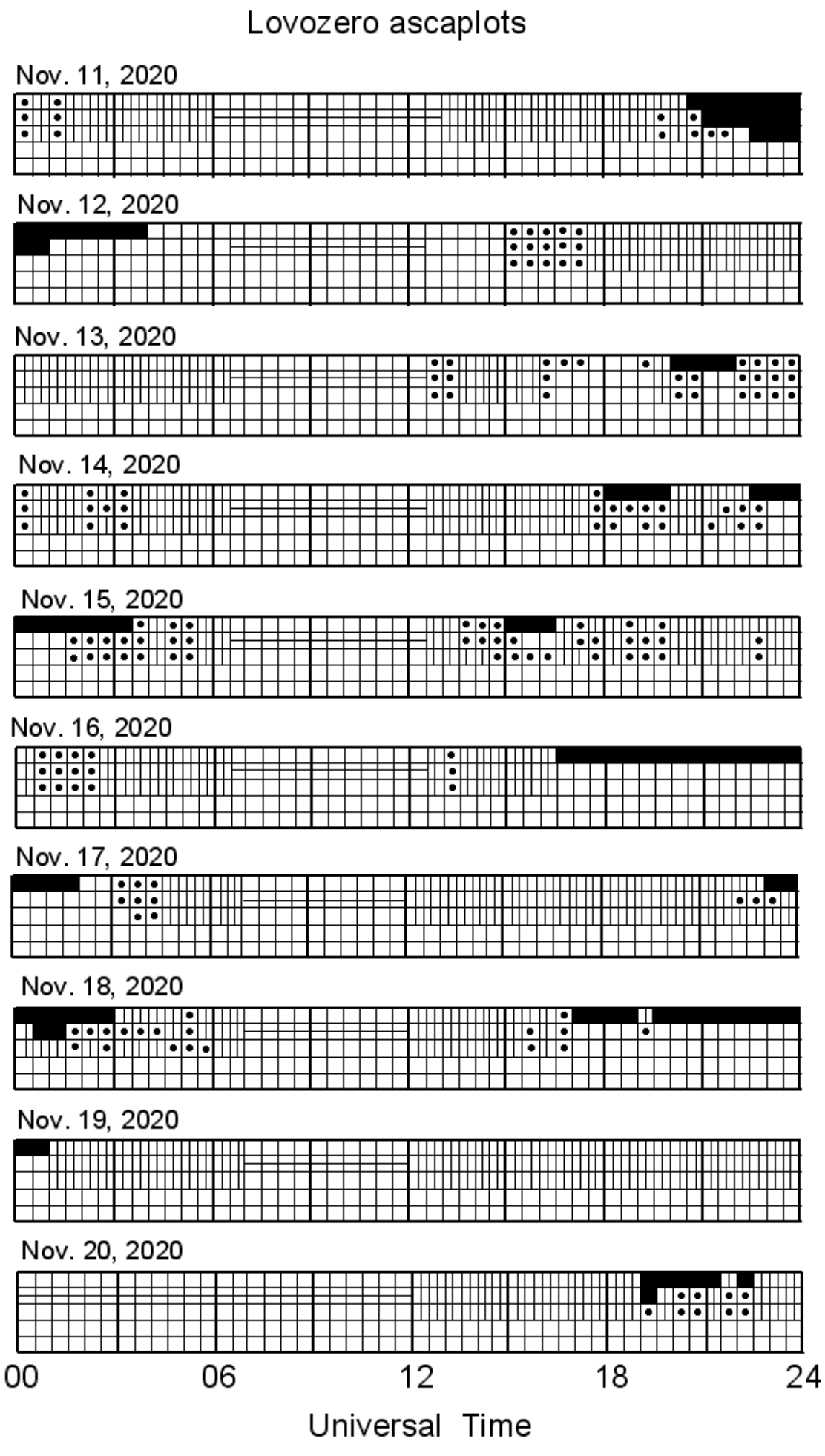

Lovozero ascaplots
Oct. 01, 2020
Oct. 02, 2020
Oct. 03, 2020
Oct. 04, 2020
Oct. 05, 2020
Oct. 06, 2020
Oct. 07, 2020
Oct. 08, 2020
Oct. 09, 2020
Oct. 10, 2020
00
06
12
18
24
Universal Time

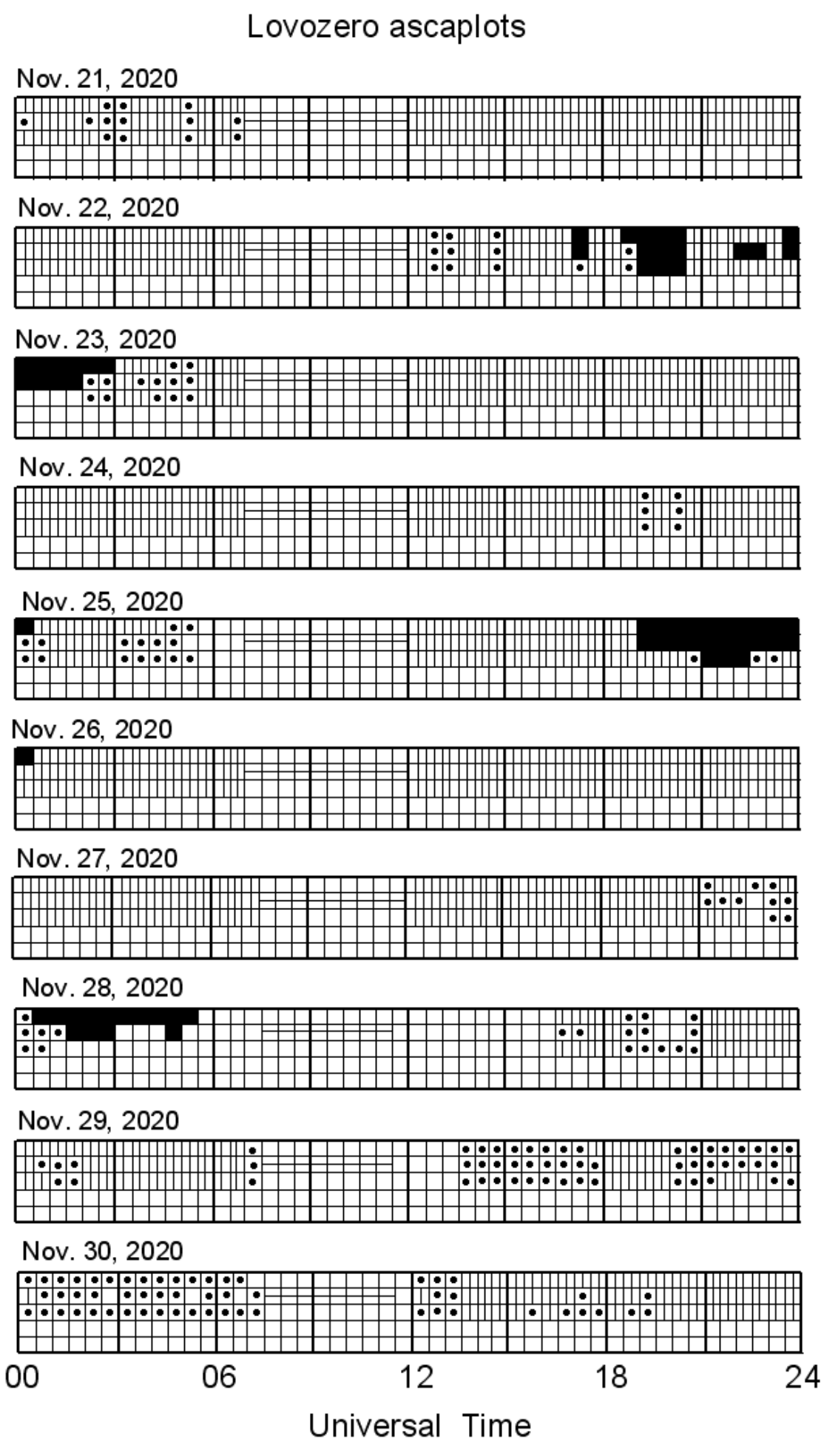

Lovozero ascaplots
Oct. 11, 2020
Oct. 12, 2020
Oct. 13, 2020
Oct. 14, 2020
Oct. 15, 2020
Oct. 16, 2020
Oct. 17, 2020
Oct. 18, 2020
Oct. 19, 2020
Oct. 20, 2020
00
06
12
18
24
Universal Time

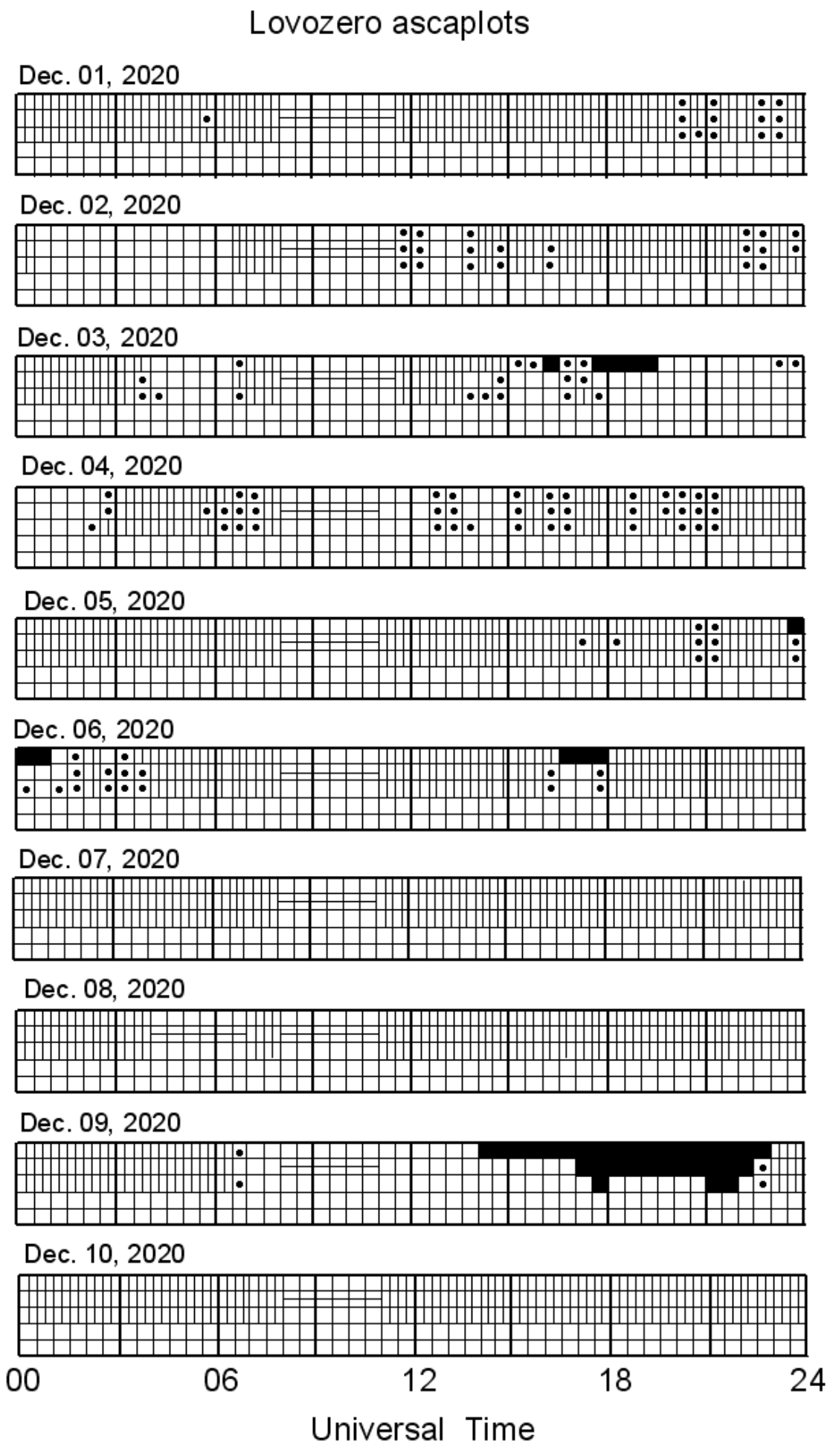

Lovozero ascaplots
Oct. 21, 2020
Oct. 22, 2020
Oct. 23, 2020
Oct. 24, 2020
Oct. 25, 2020
Oct. 26, 2020
Oct. 27, 2020
Oct. 28, 2020
Oct. 29, 2020
Oct. 30, 2020
00
06
12
18
24
Universal Time

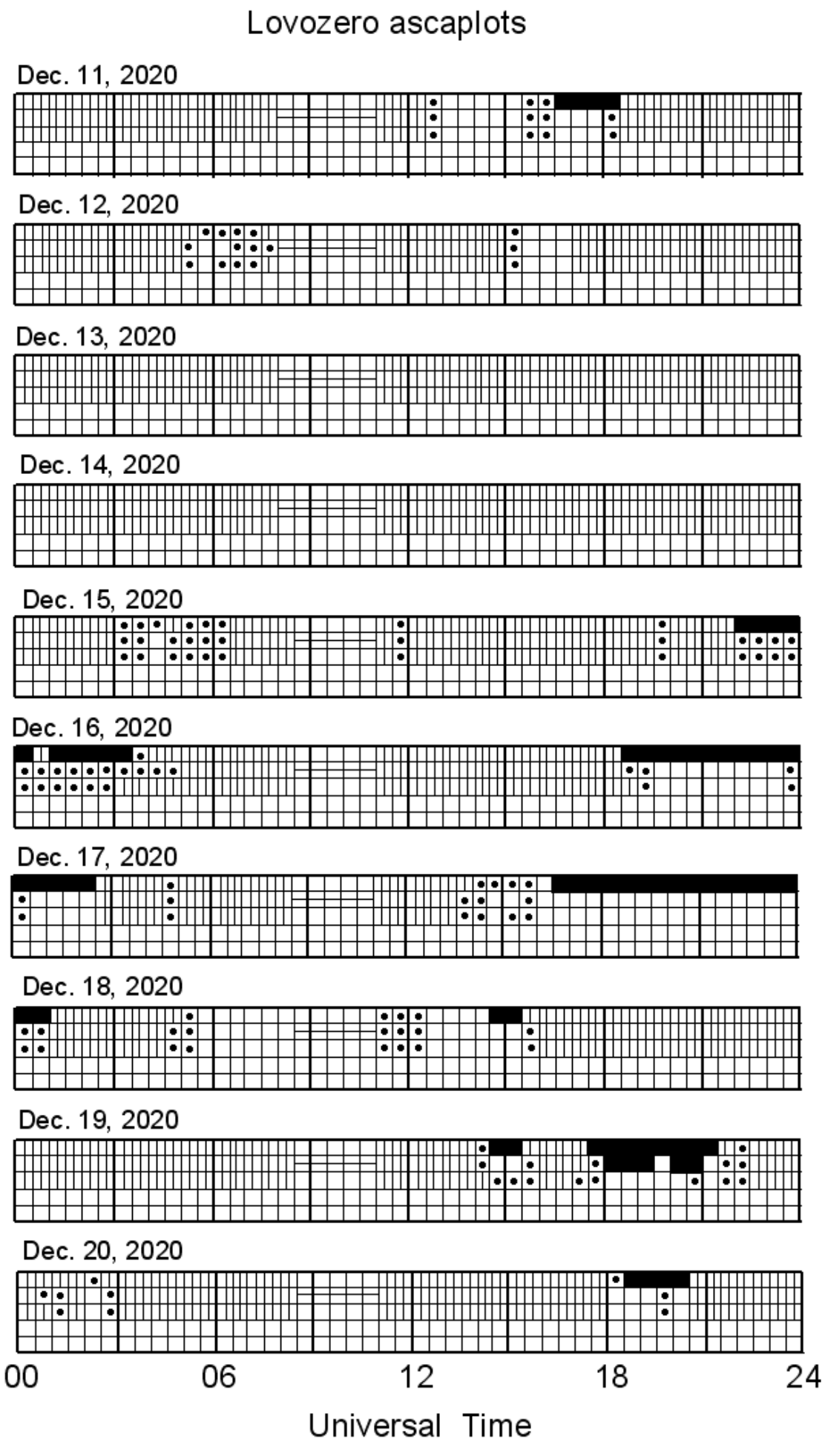

Lovozero ascaplots
Oct. 31, 2020
00
06
12
18
24
Universal Time

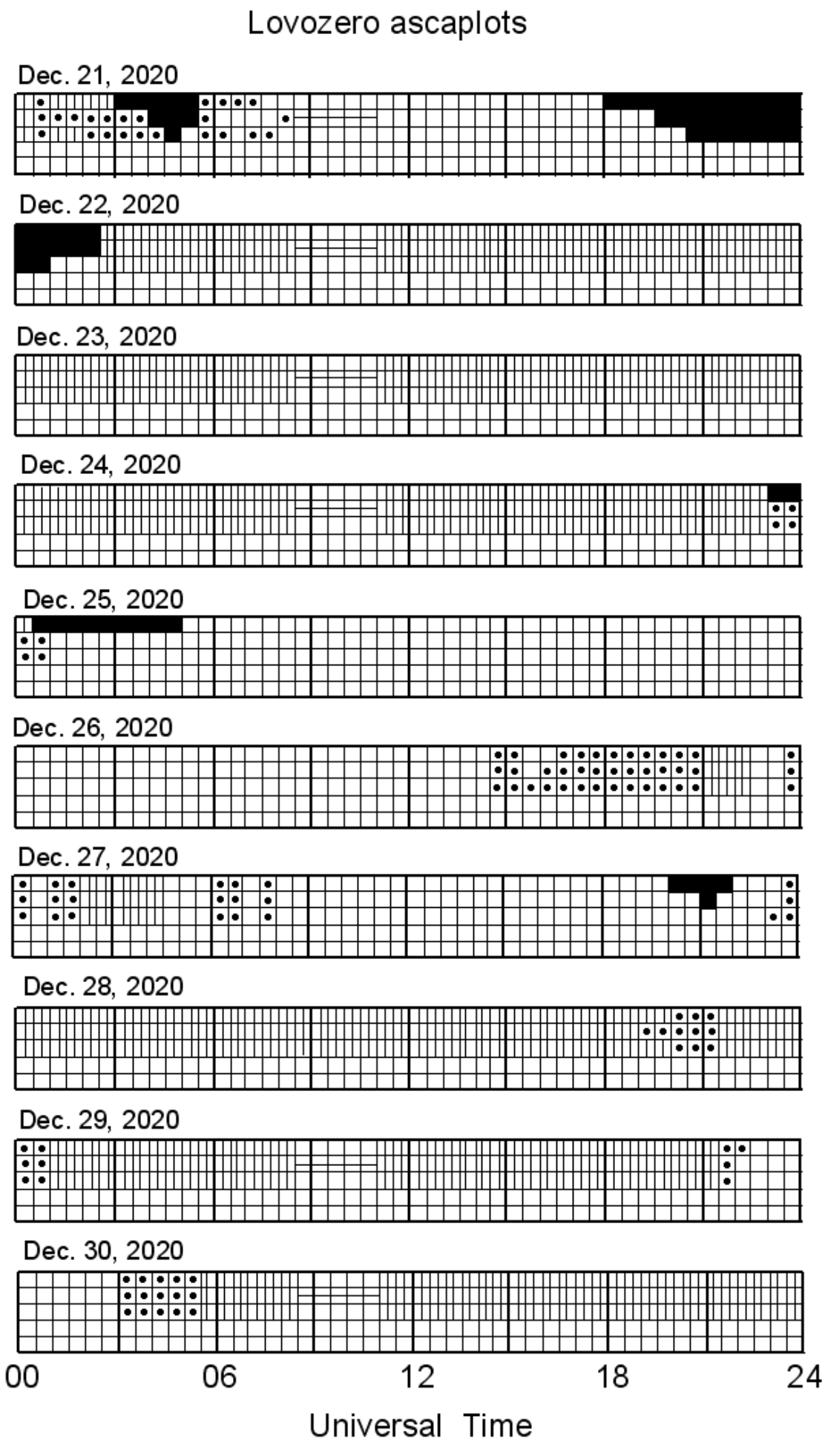

Lovozero ascaplots
Nov. 01, 2020
Nov. 02, 2020
Nov. 03, 2020
Nov. 04, 2020
Nov. 05, 2020
Nov. 06, 2020
Nov. 07, 2020
Nov. 08, 2020
Nov. 09, 2020
Nov. 10, 2020
00
06
12
18
24
Universal Time

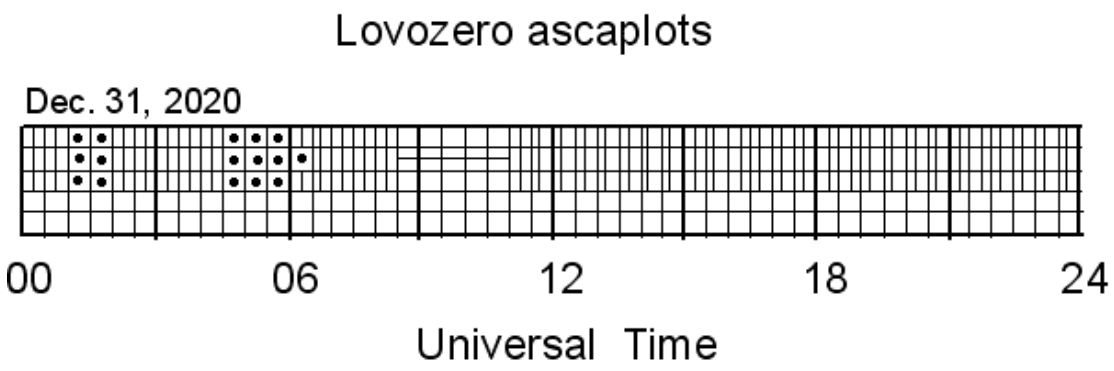

Lovozero ascaplots
Nov. 11, 2020
Nov. 12, 2020
Nov. 13, 2020
Nov. 14, 2020
Nov. 15, 2020
Nov. 16, 2020
Nov. 17, 2020
Nov. 18, 2020
Nov. 19, 2020
Nov. 20, 2020
00
06
12
18
24
Universal Time


Lovozero ascaplots
Nov. 21, 2020
Nov. 22, 2020
Nov. 23, 2020
Nov. 24, 2020
Nov. 25, 2020
Nov. 26, 2020
Nov. 27, 2020
Nov. 28, 2020
Nov. 29, 2020
Nov. 30, 2020
00
06
12
18
24
Universal Time

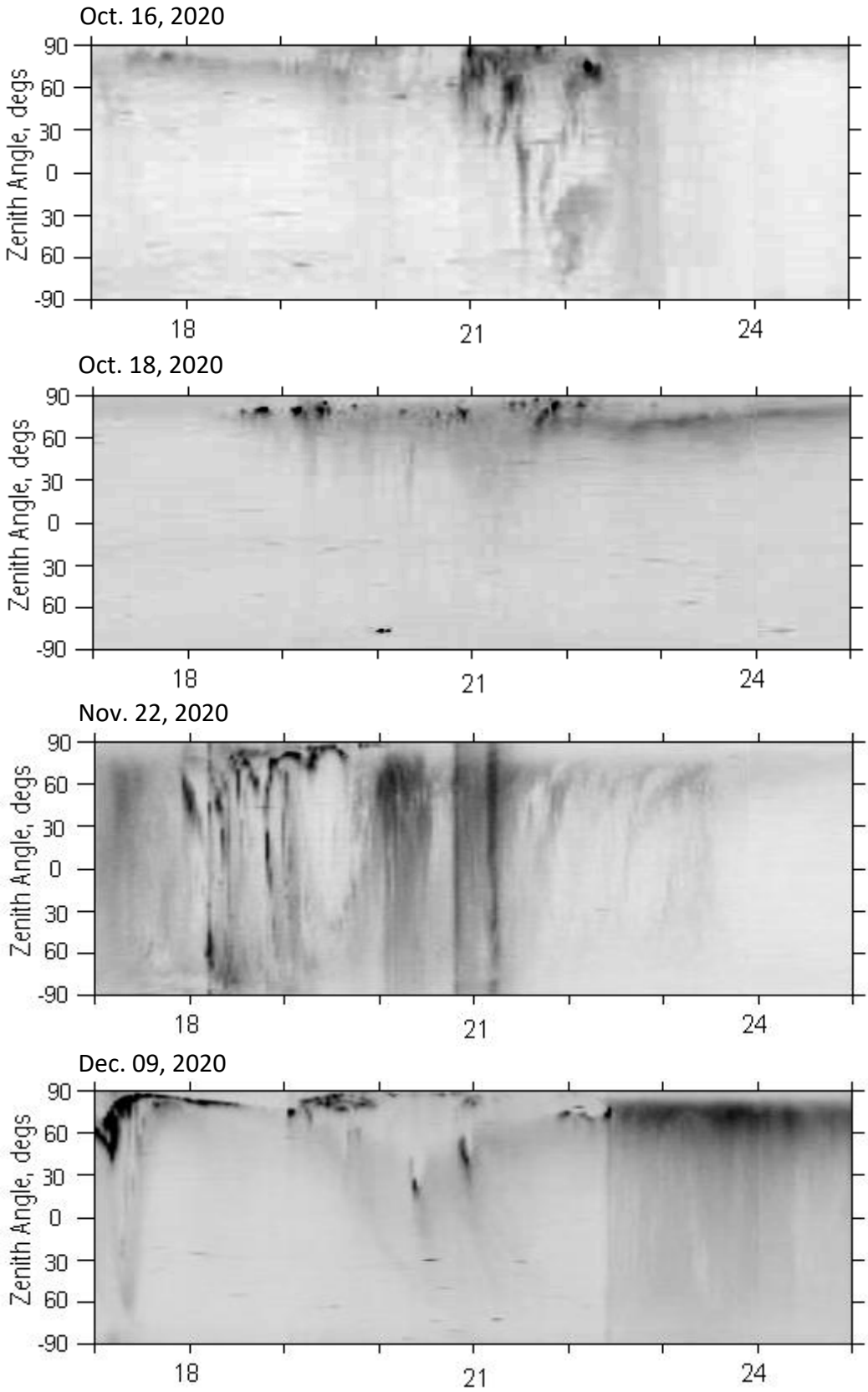

Lovozero ascaplots
Dec. 01, 2020
Dec. 02, 2020
Dec. 03, 2020
Dec. 04, 2020
Dec. 05, 2020
Dec. 06, 2020
Dec. 07, 2020
Dec. 08, 2020
Dec. 09, 2020
Dec. 10, 2020
00
06
12
18
24
Universal Time


Lovozero ascaplots
Dec. 11, 2020
Dec. 12, 2020
Dec. 13, 2020
Dec. 14, 2020
Dec. 15, 2020
Dec. 16, 2020
Dec. 17, 2020
Dec. 18, 2020
Dec. 19, 2020
Dec. 20, 2020
00
06
12
18
24
Universal Time

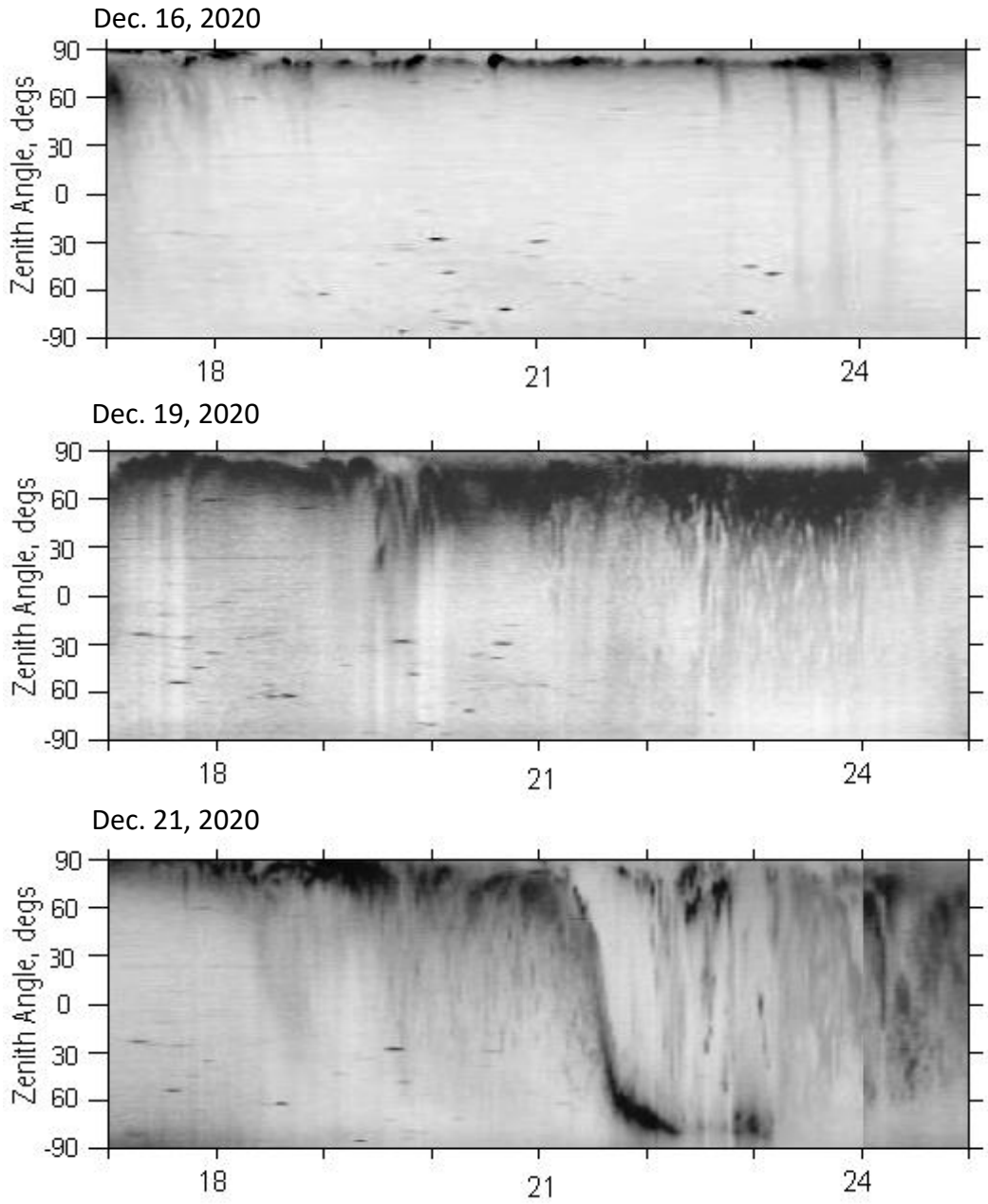

Lovozero ascaplots
Dec. 21, 2020
Dec. 22, 2020
Dec. 23, 2020
Dec. 24, 2020
Dec. 25, 2020
Dec. 26, 2020
Dec. 27, 2020
Dec. 28, 2020
Dec. 29, 2020
Dec. 30, 2020
00
06
12
18
24
Universal Time


Lovozero ascaplots
Dec. 31, 2020
00
06
12
18
24
Universal Time

Lovozero TV keograms

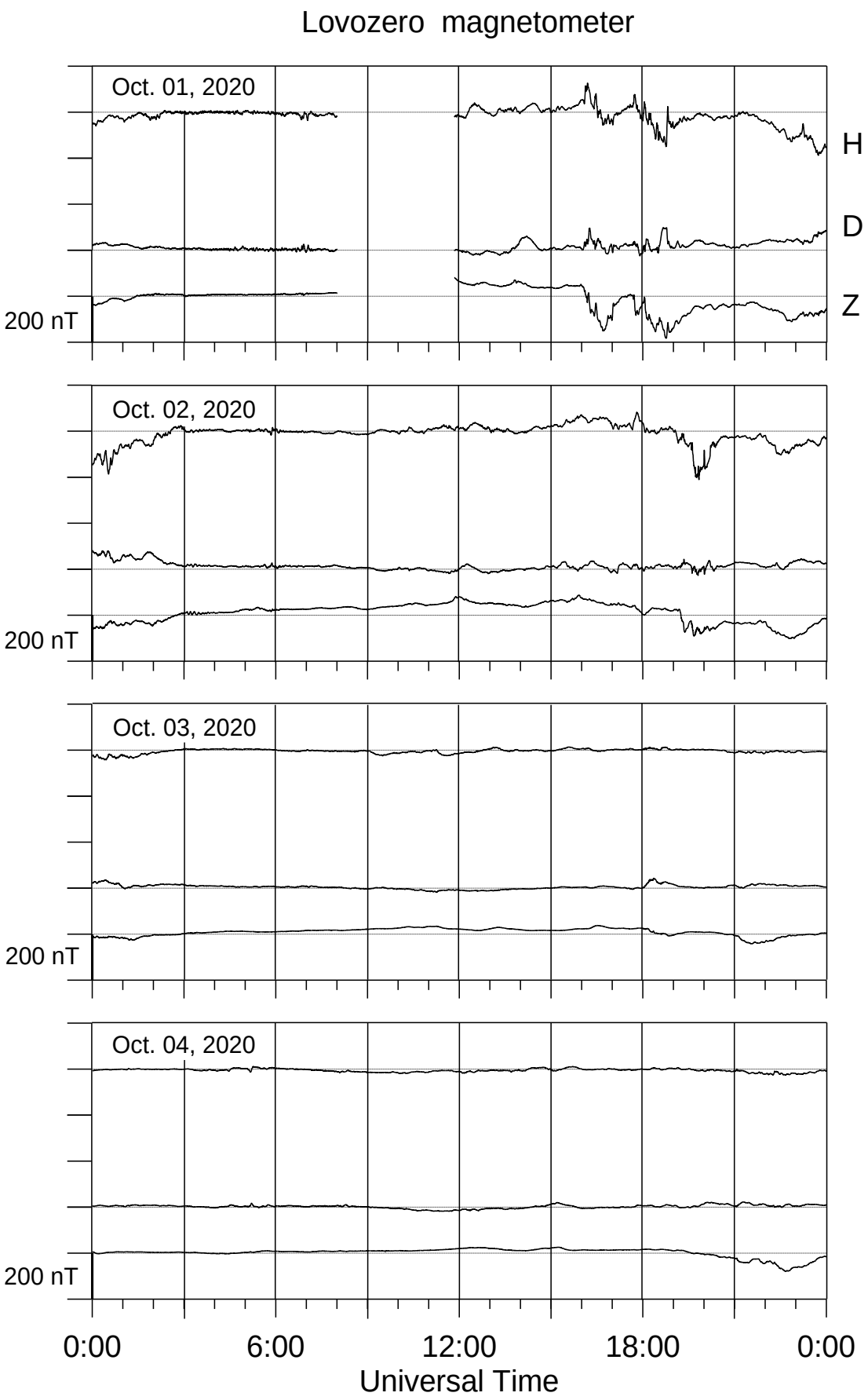


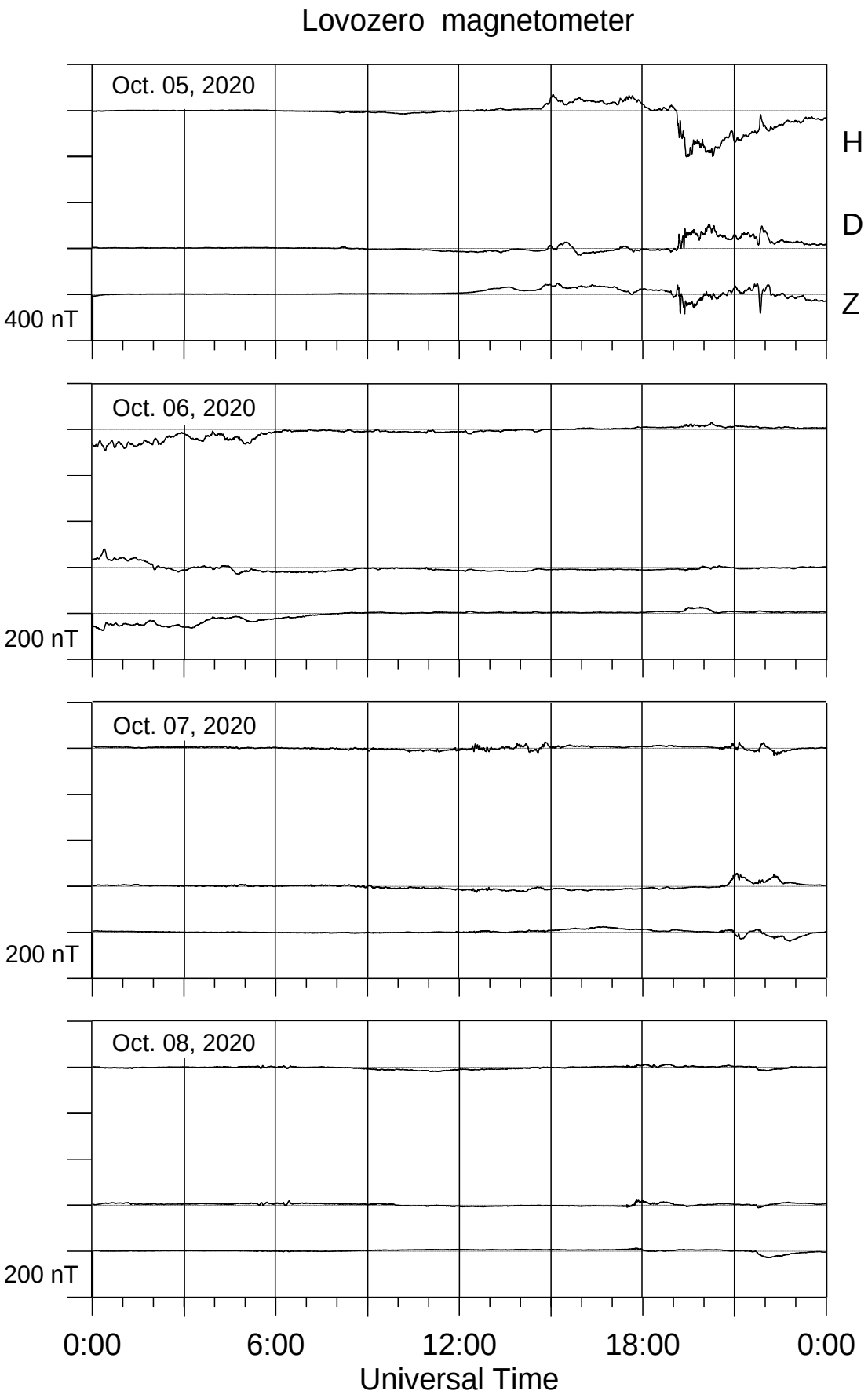
Lovozero TV keograms

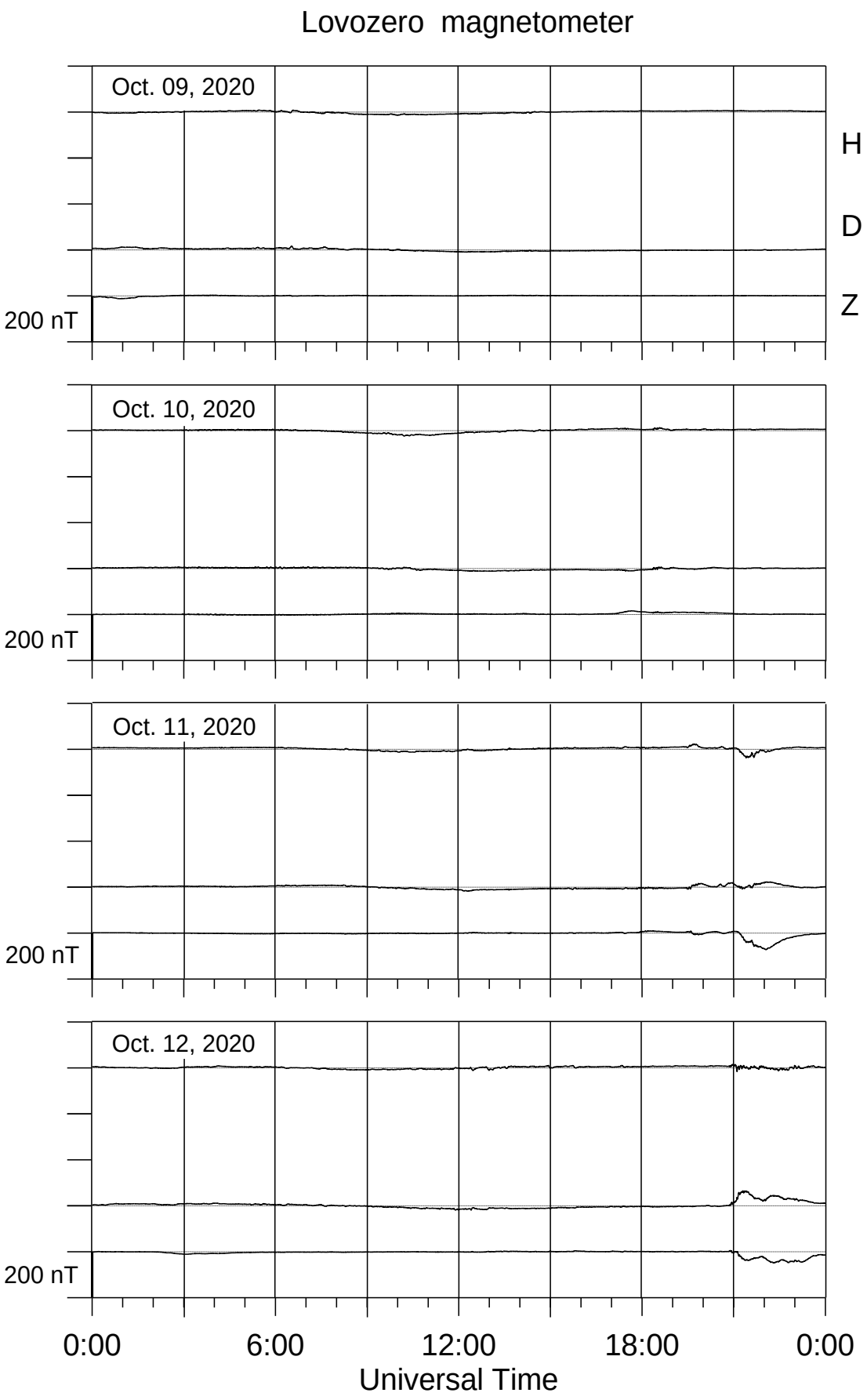


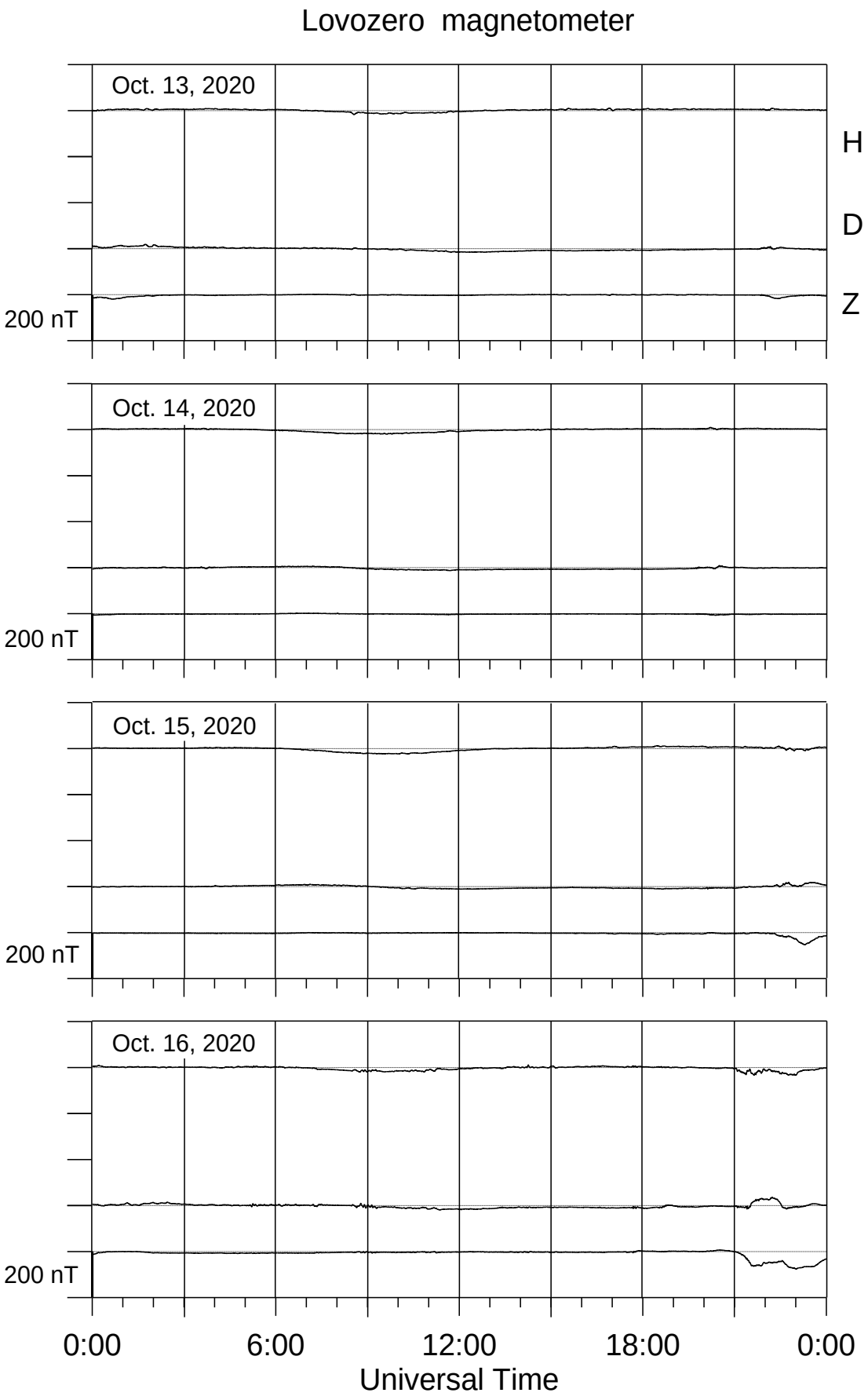
LOVOZERO MAGNETOGRAMS

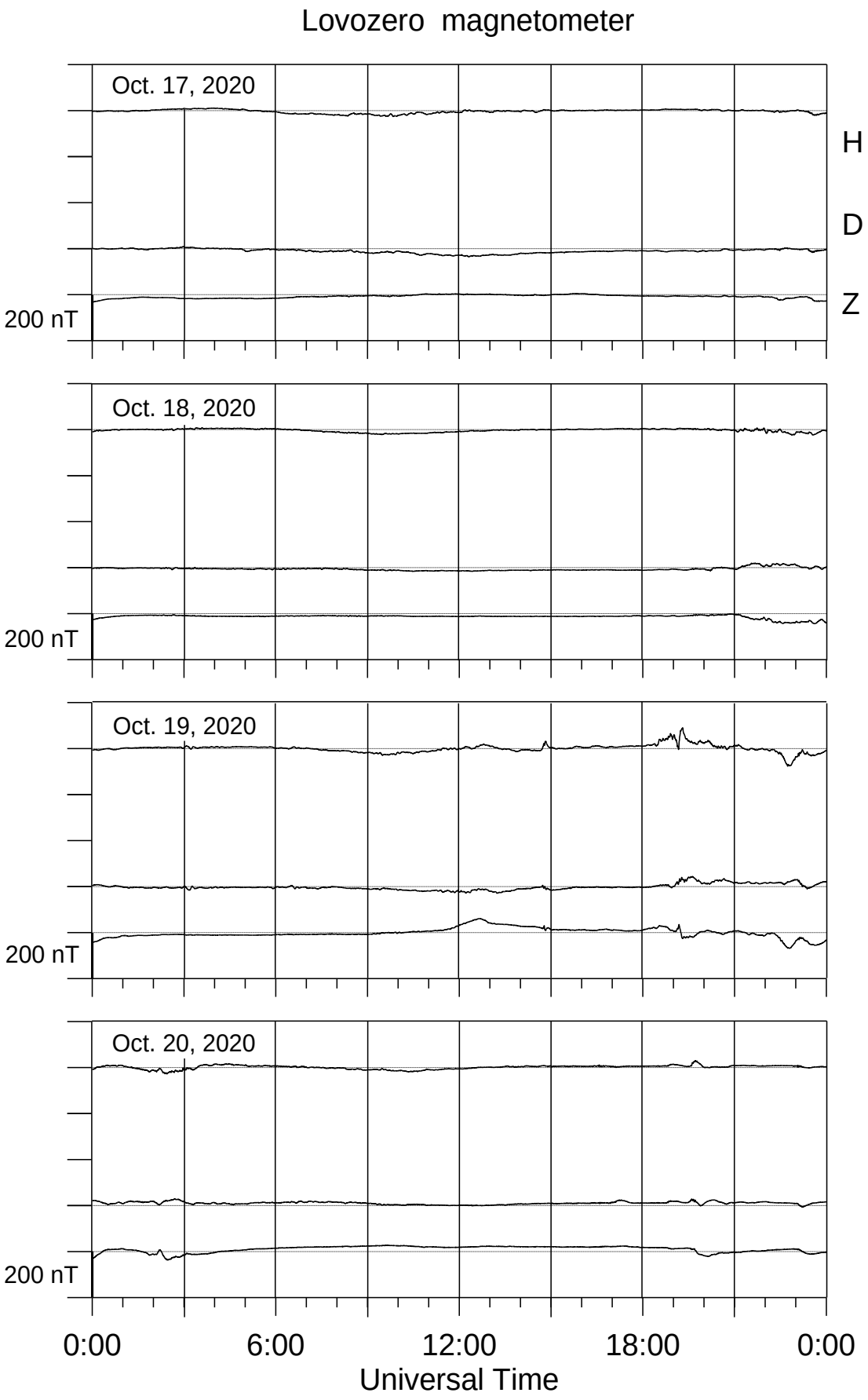
October - December 2020

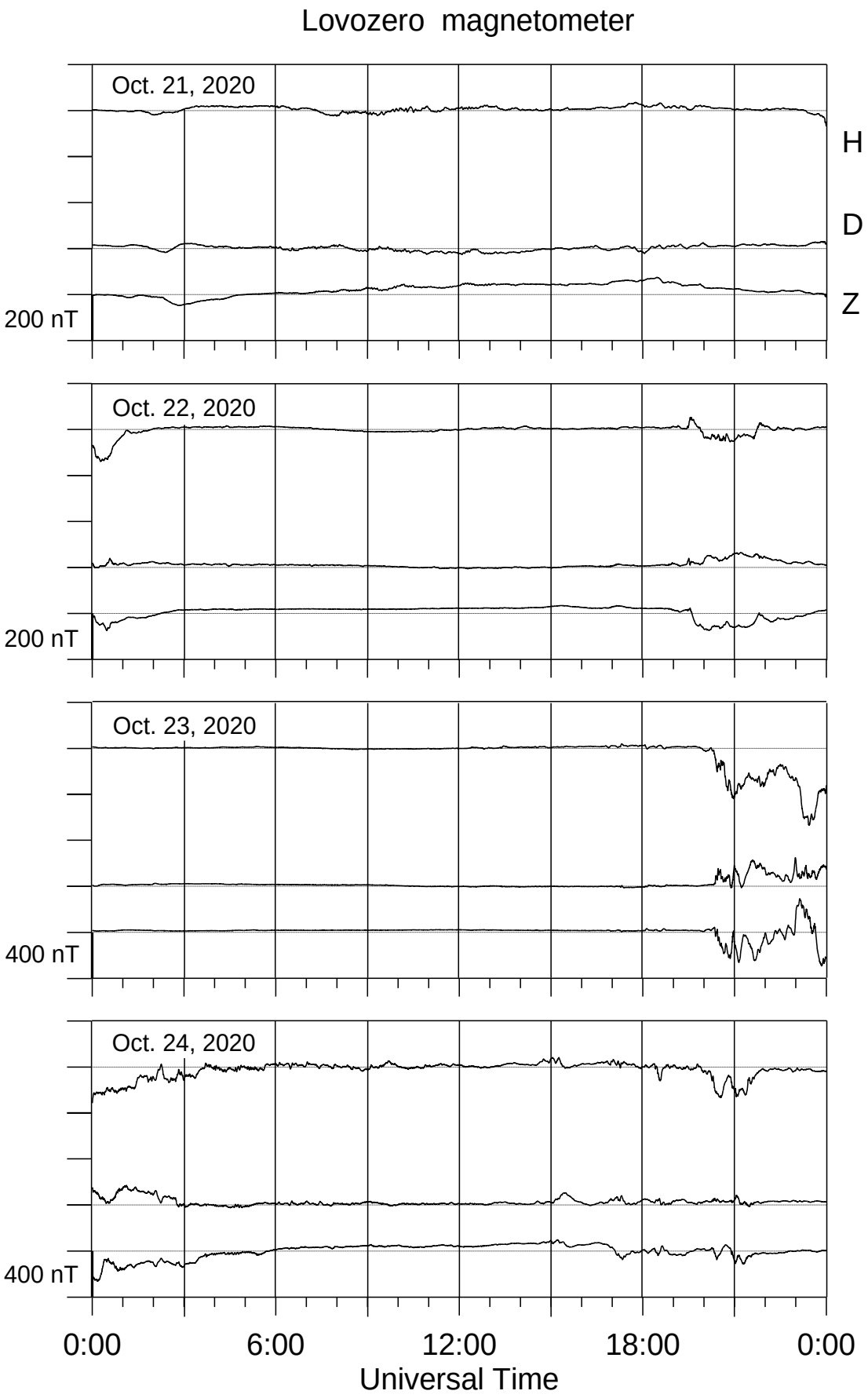

Lovozero magnetometer
Oct. 01, 2020
H
D
Z
200 nT
Oct. 02, 2020
200 nT
Oct. 03, 2020
200 nT
Oct. 04, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

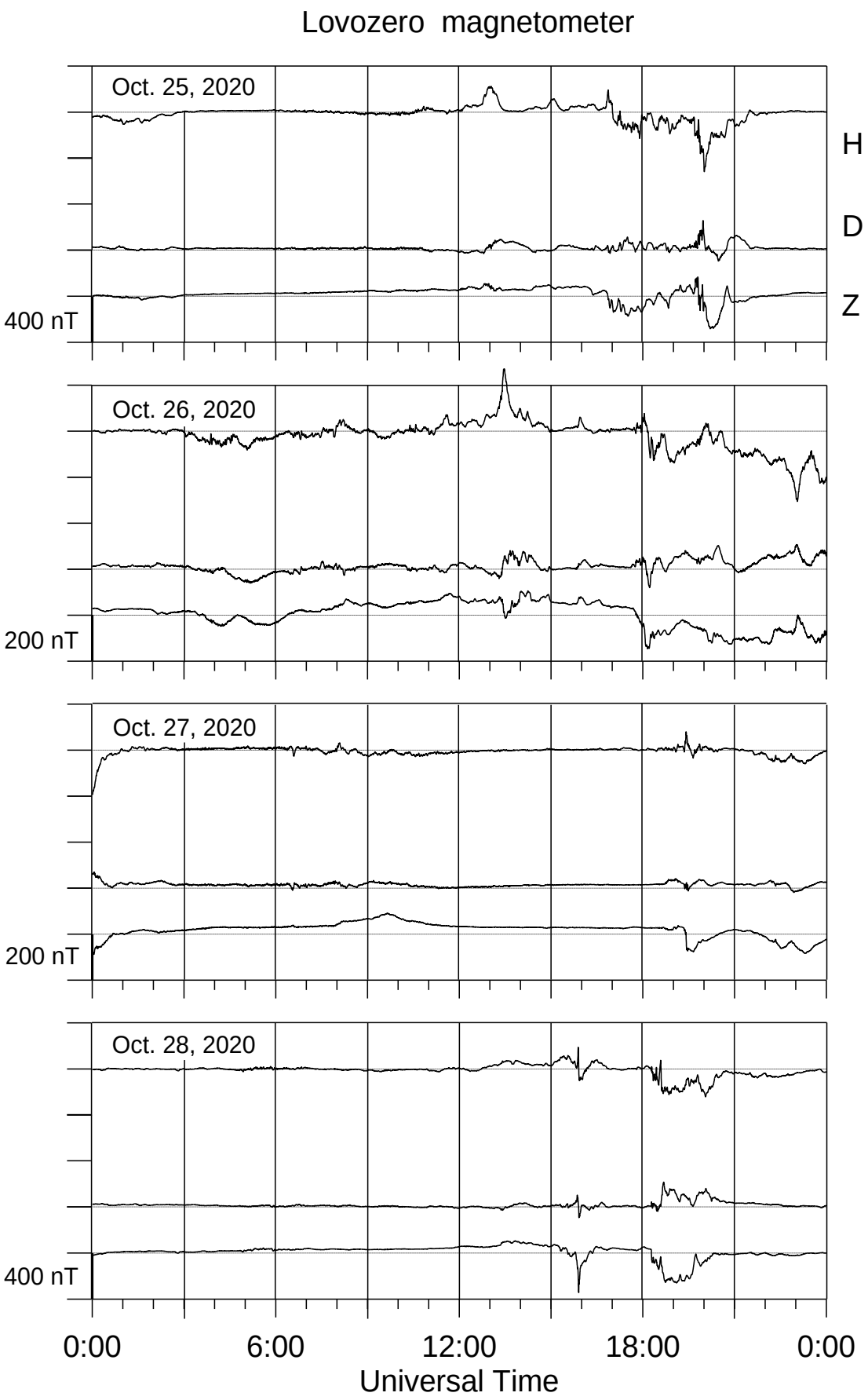

Lovozero magnetometer
Oct. 05, 2020
H
D
Z
400 nT
Oct. 06, 2020
200 nT
Oct. 07, 2020
200 nT
Oct. 08, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

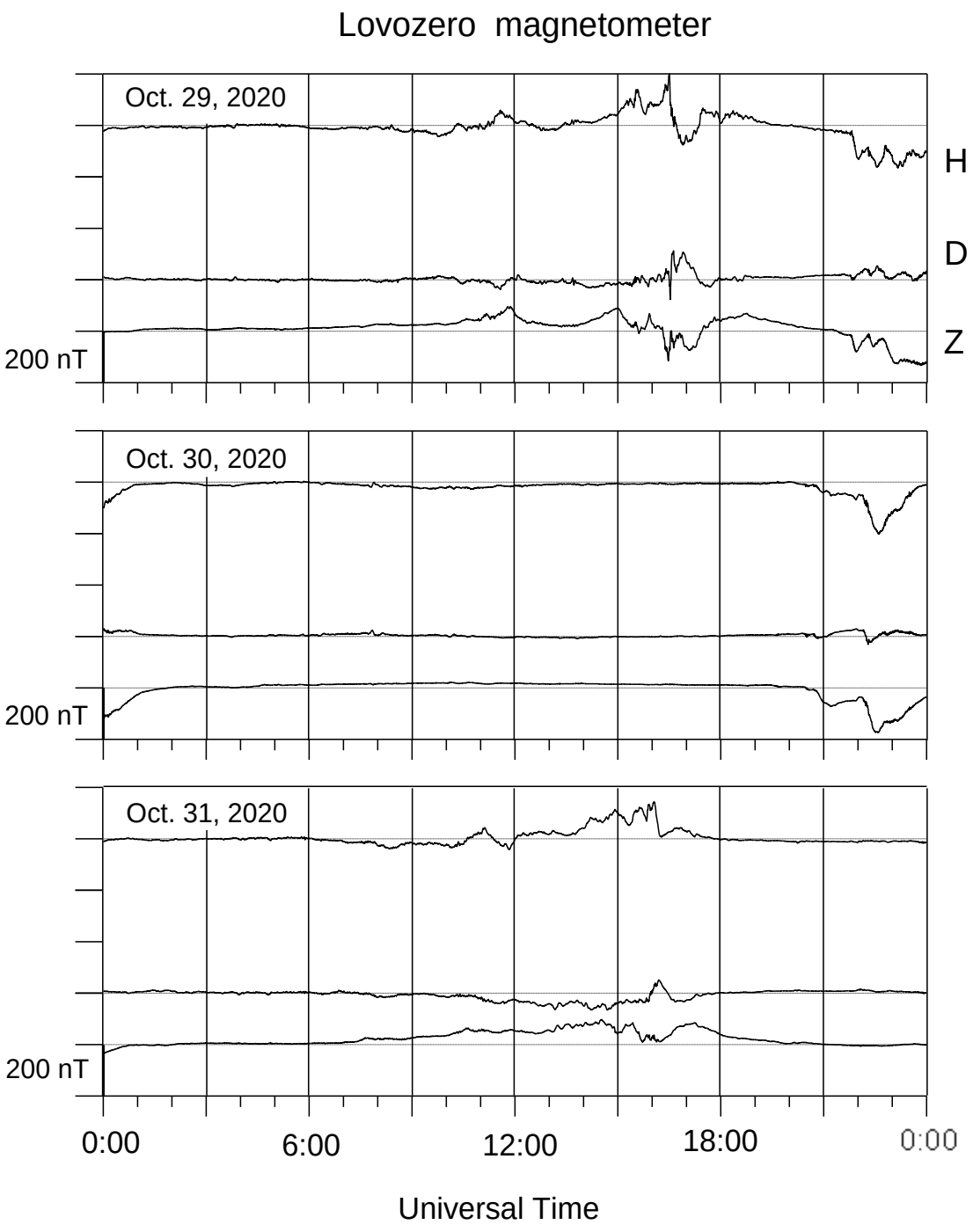

Lovozero magnetometer
Oct. 09, 2020
H
D
Z
200 nT
Oct. 10, 2020
200 nT
Oct. 11, 2020
200 nT
Oct. 12, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

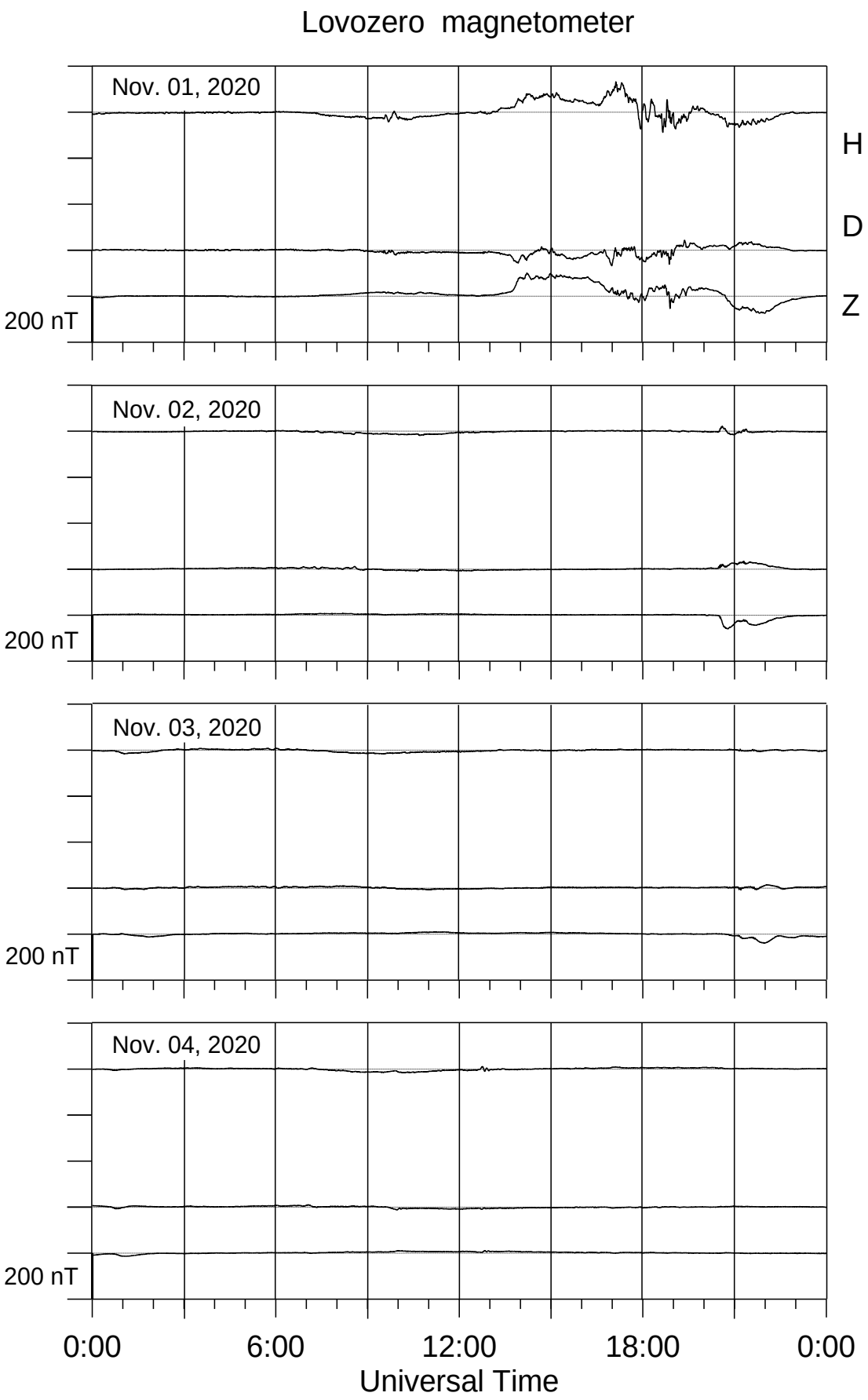

Lovozero magnetometer
Oct. 13, 2020
H
D
Z
200 nT
Oct. 14, 2020
200 nT
Oct. 15, 2020
200 nT
Oct. 16, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

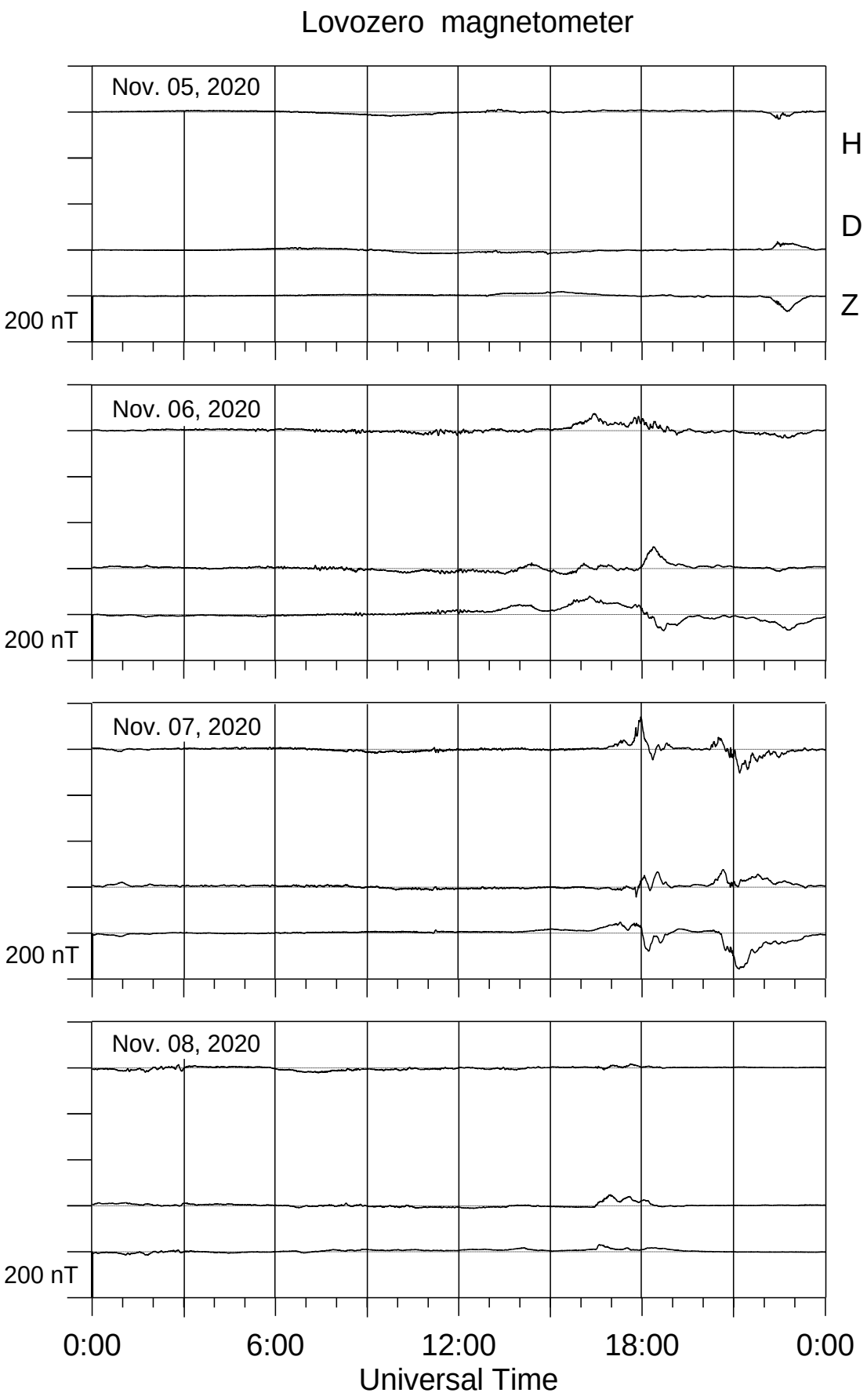

Lovozero magnetometer
Oct. 17, 2020
H
D
Z
200 nT
Oct. 18, 2020
200 nT
Oct. 19, 2020
200 nT
Oct. 20, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

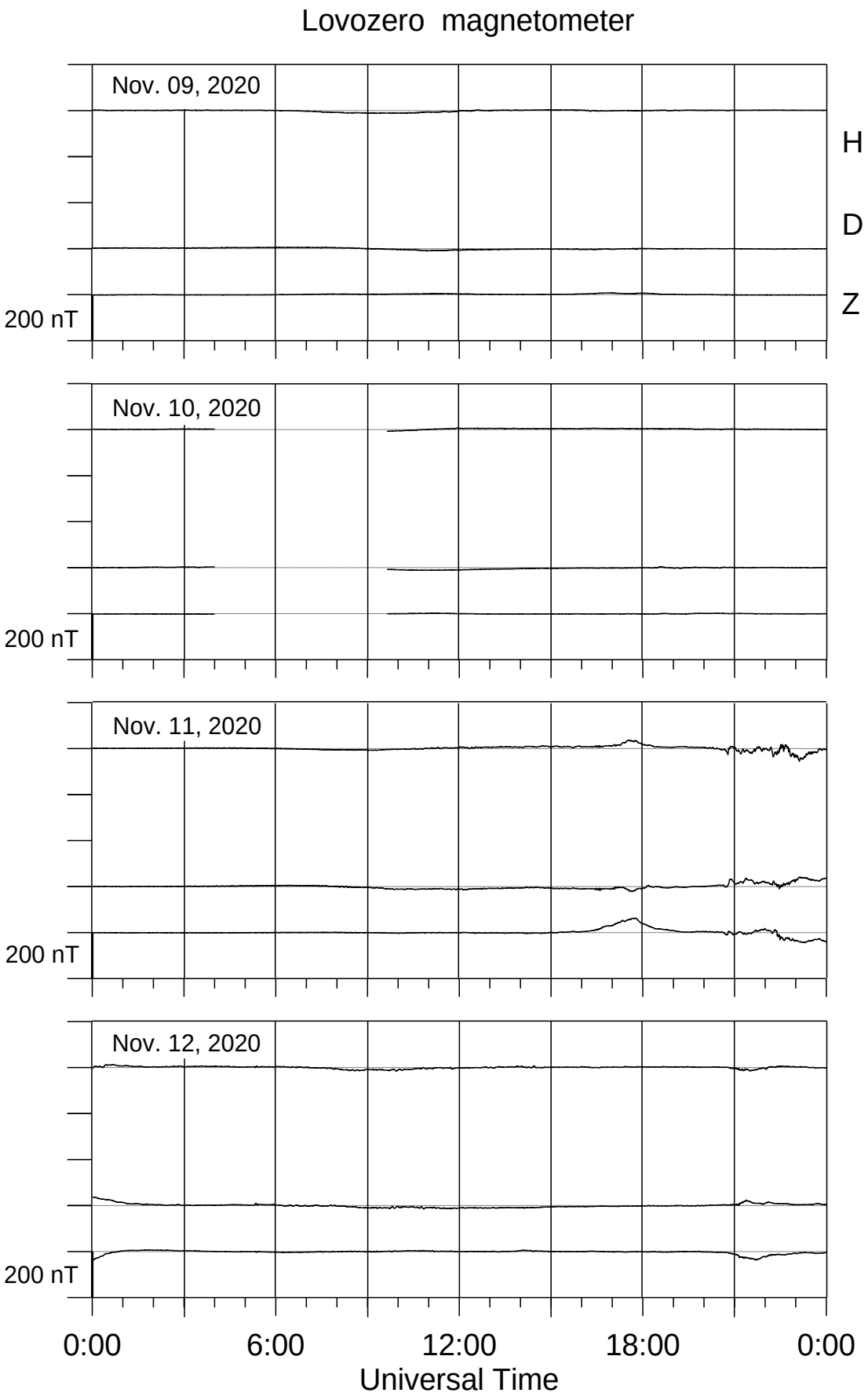

Lovozero magnetometer
Oct. 21, 2020
H
D
Z
200 nT
Oct. 22, 2020
200 nT
Oct. 23, 2020
400 nT
Oct. 24, 2020
400 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

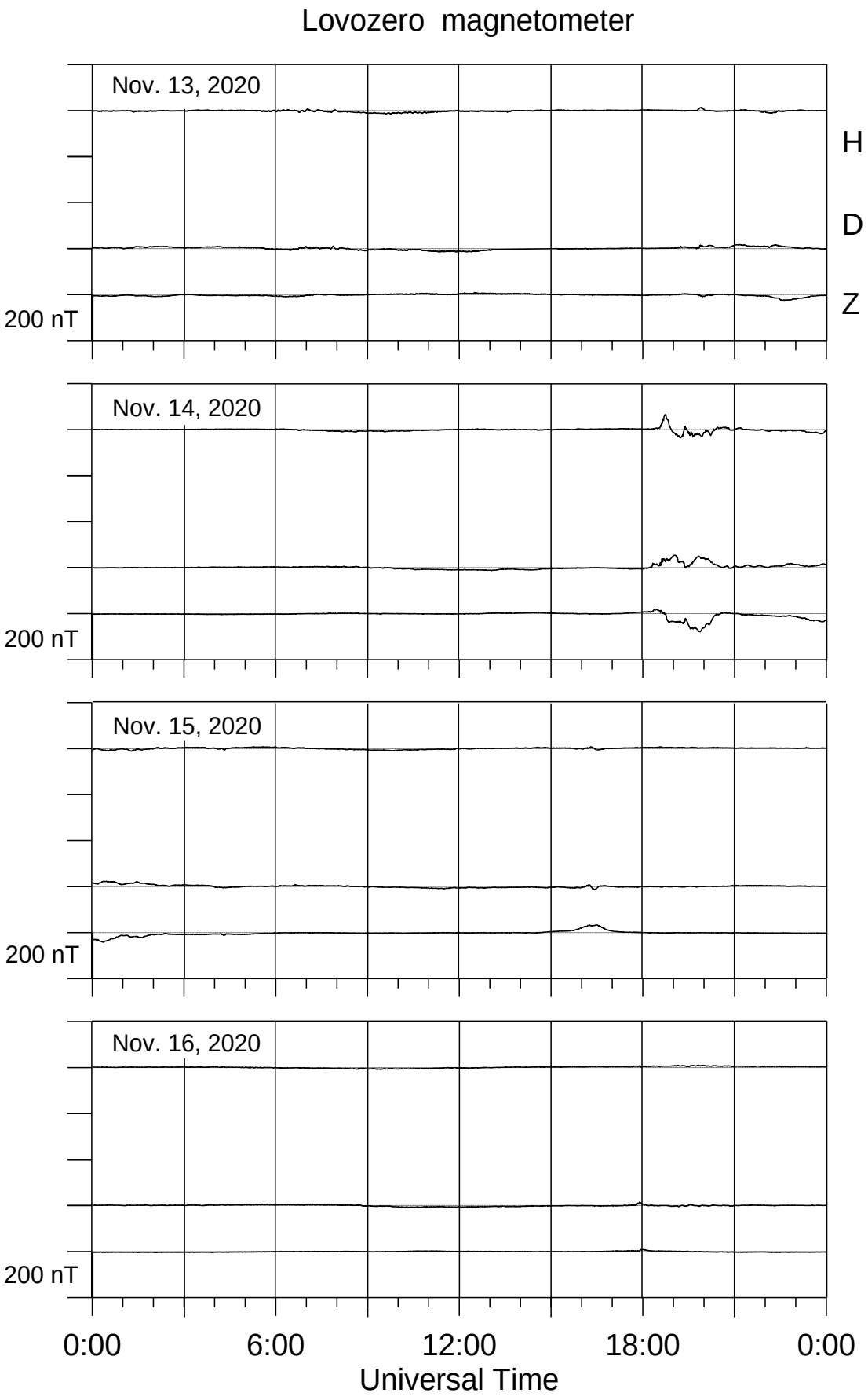

Lovozero magnetometer
Oct. 25, 2020
H
D
Z
400 nT
Oct. 26, 2020
200 nT
Oct. 27, 2020
200 nT
Oct. 28, 2020
400 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

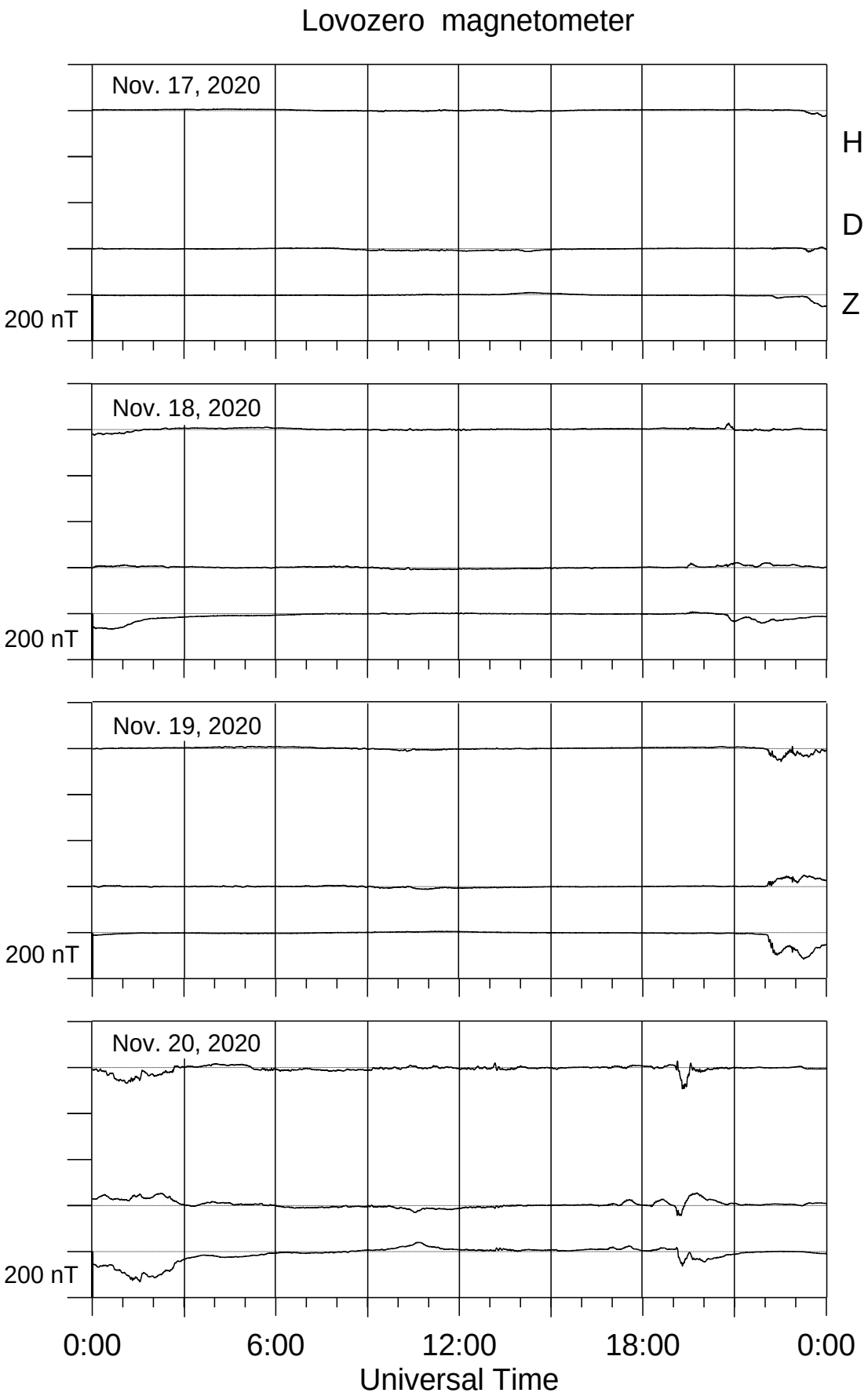

Lovozero magnetometer
Oct. 29, 2020
H
D
Z
200 nT
Oct. 30, 2020
200 nT
Oct. 31, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

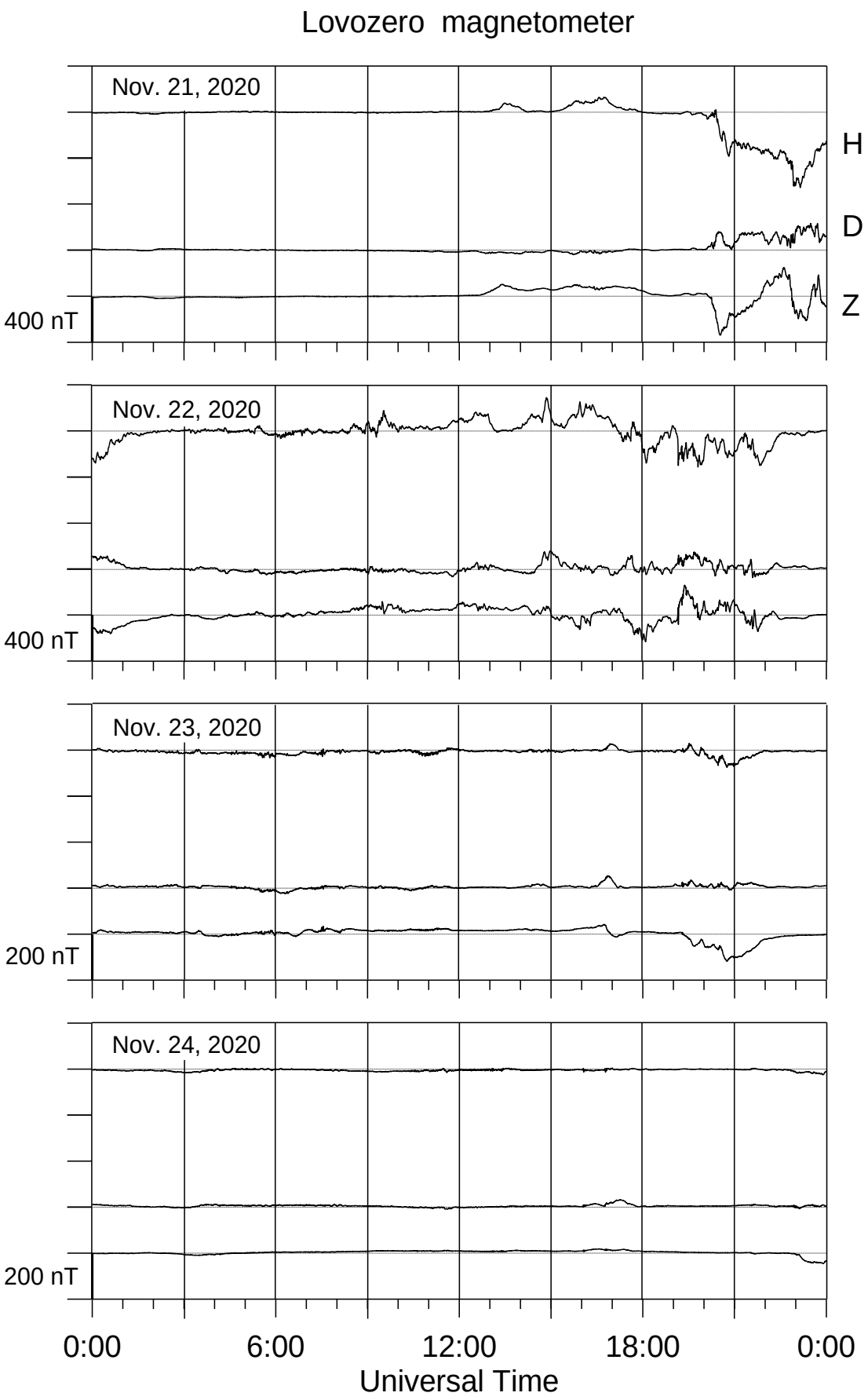

Lovozero magnetometer
Nov. 01, 2020
H
D
Z
200 nT
Nov. 02, 2020
200 nT
Nov. 03, 2020
200 nT
Nov. 04, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

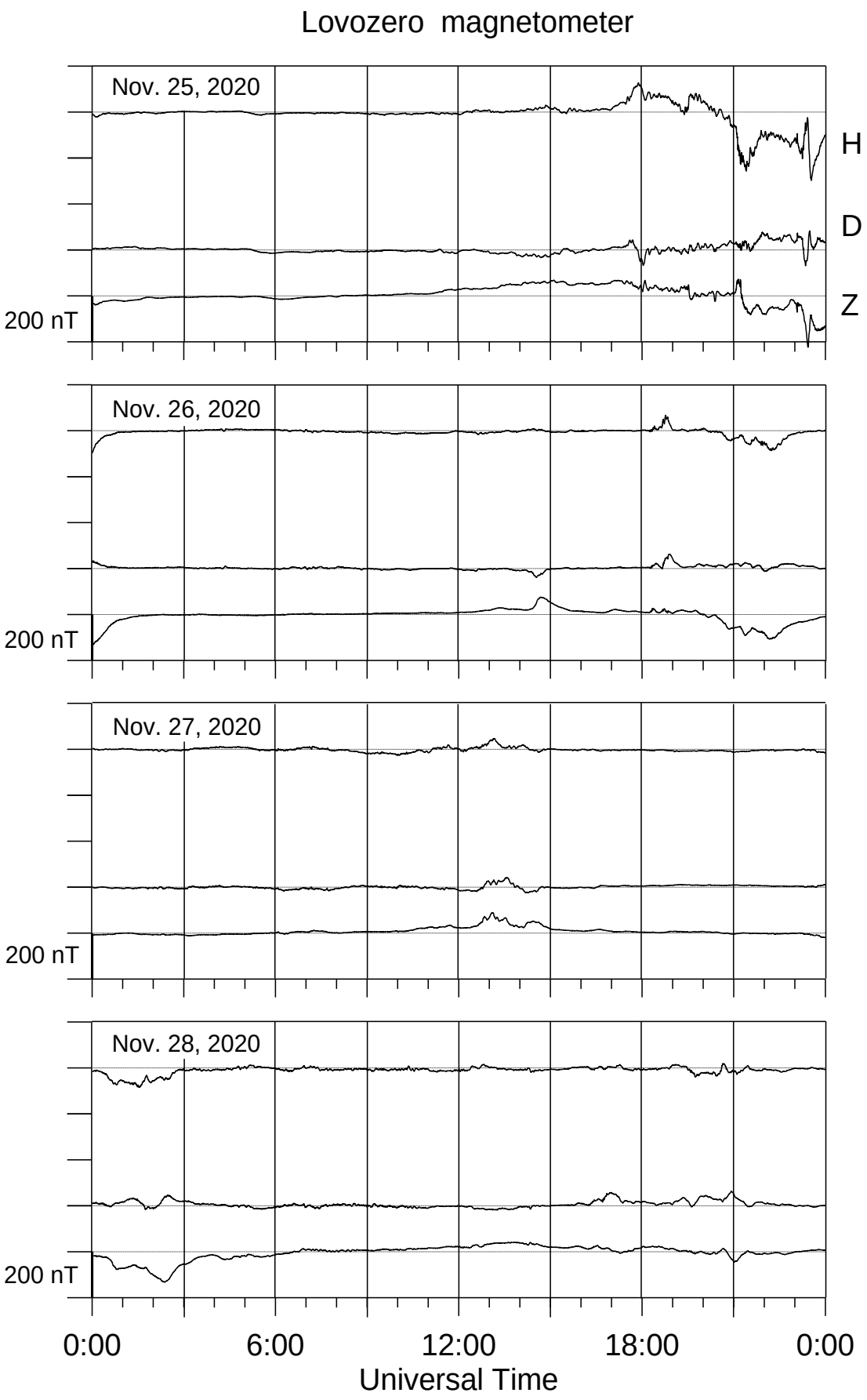

Lovozero magnetometer
Nov. 05, 2020
H
D
Z
200 nT
Nov. 06, 2020
200 nT
Nov. 07, 2020
200 nT
Nov. 08, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

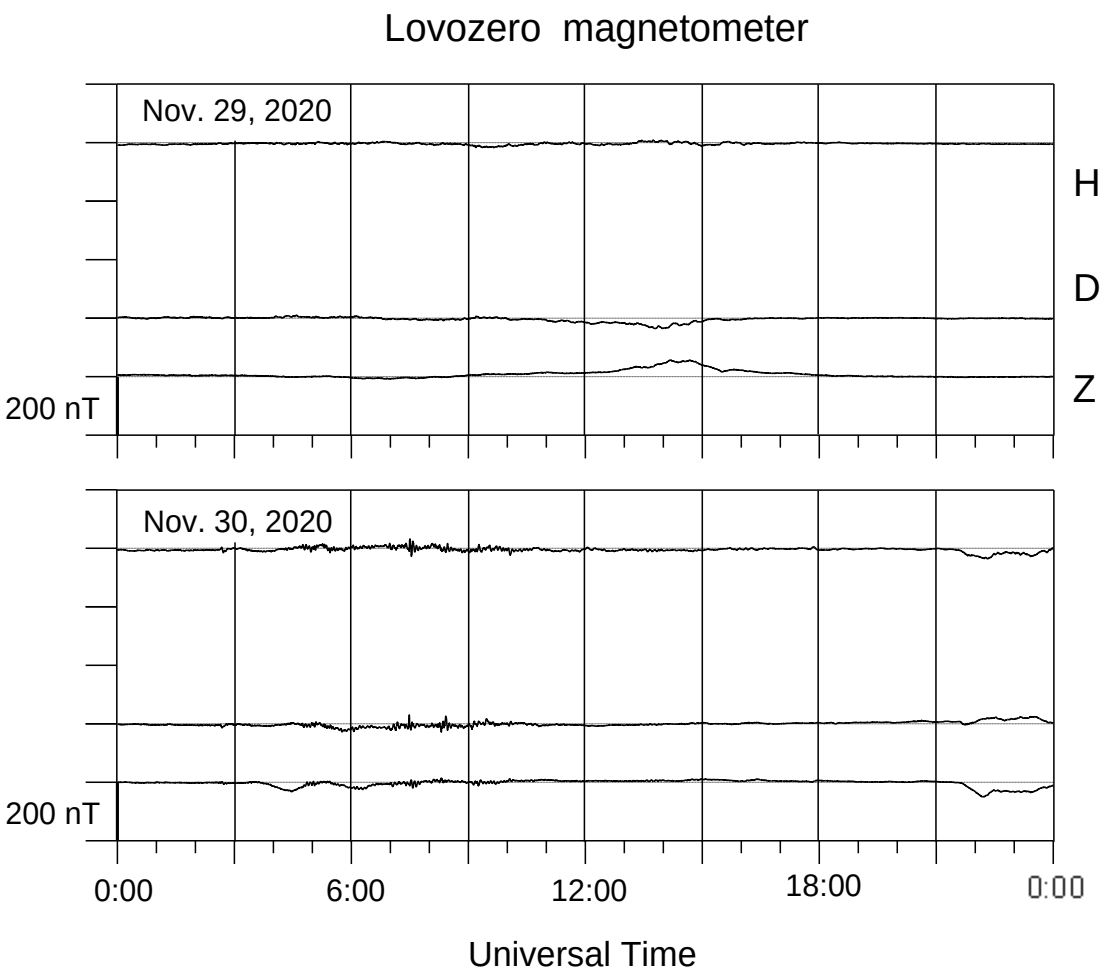

Lovozero magnetometer
Nov. 09, 2020
H
D
Z
200 nT
Nov. 10, 2020
200 nT
Nov. 11, 2020
200 nT
Nov. 12, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

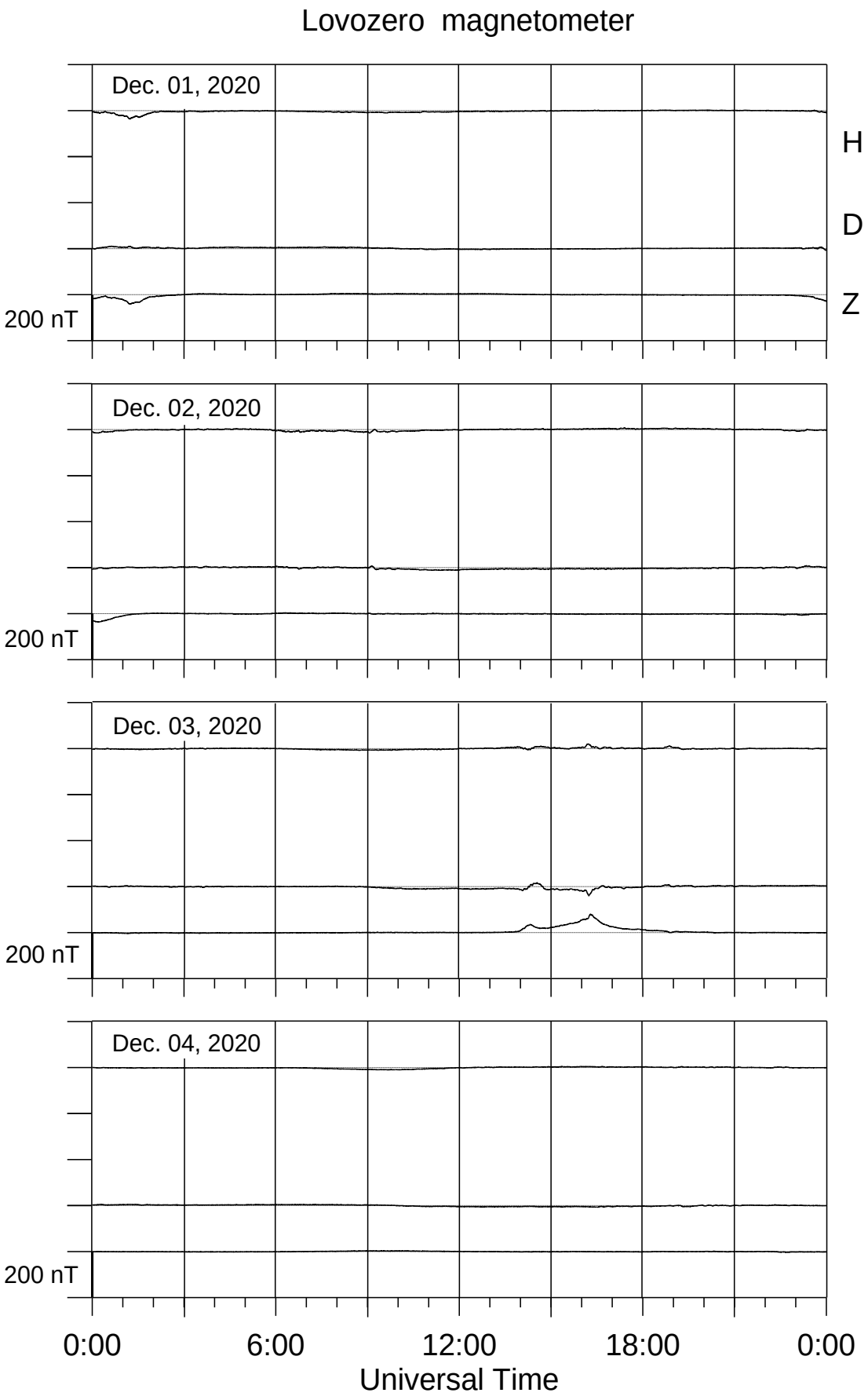

Lovozero magnetometer
Nov. 13, 2020
H
D
Z
200 nT
Nov. 14, 2020
200 nT
Nov. 15, 2020
200 nT
Nov. 16, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

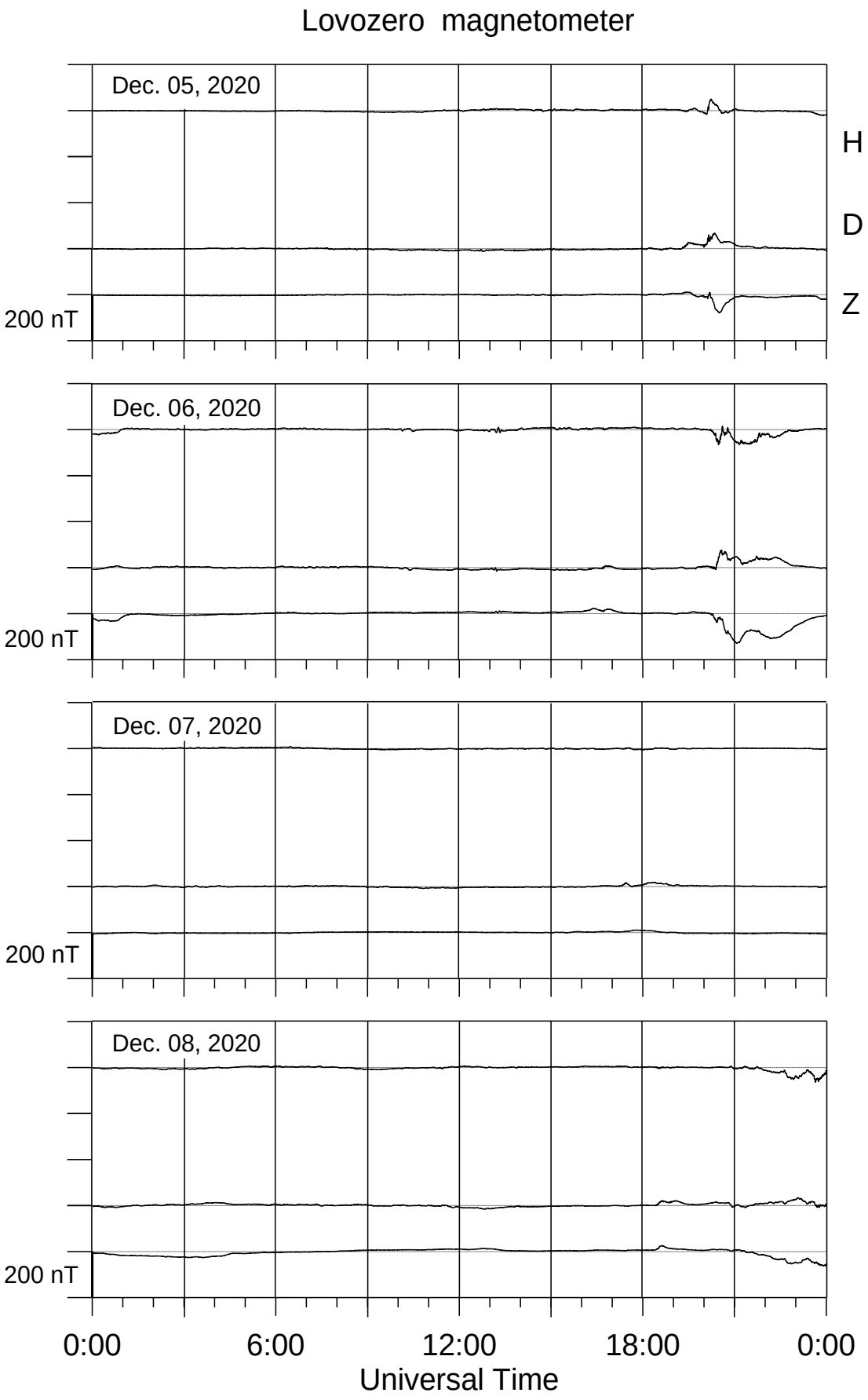

Lovozero magnetometer
Nov. 17, 2020
H
D
Z
200 nT
Nov. 18, 2020
200 nT
Nov. 19, 2020
200 nT
Nov. 20, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

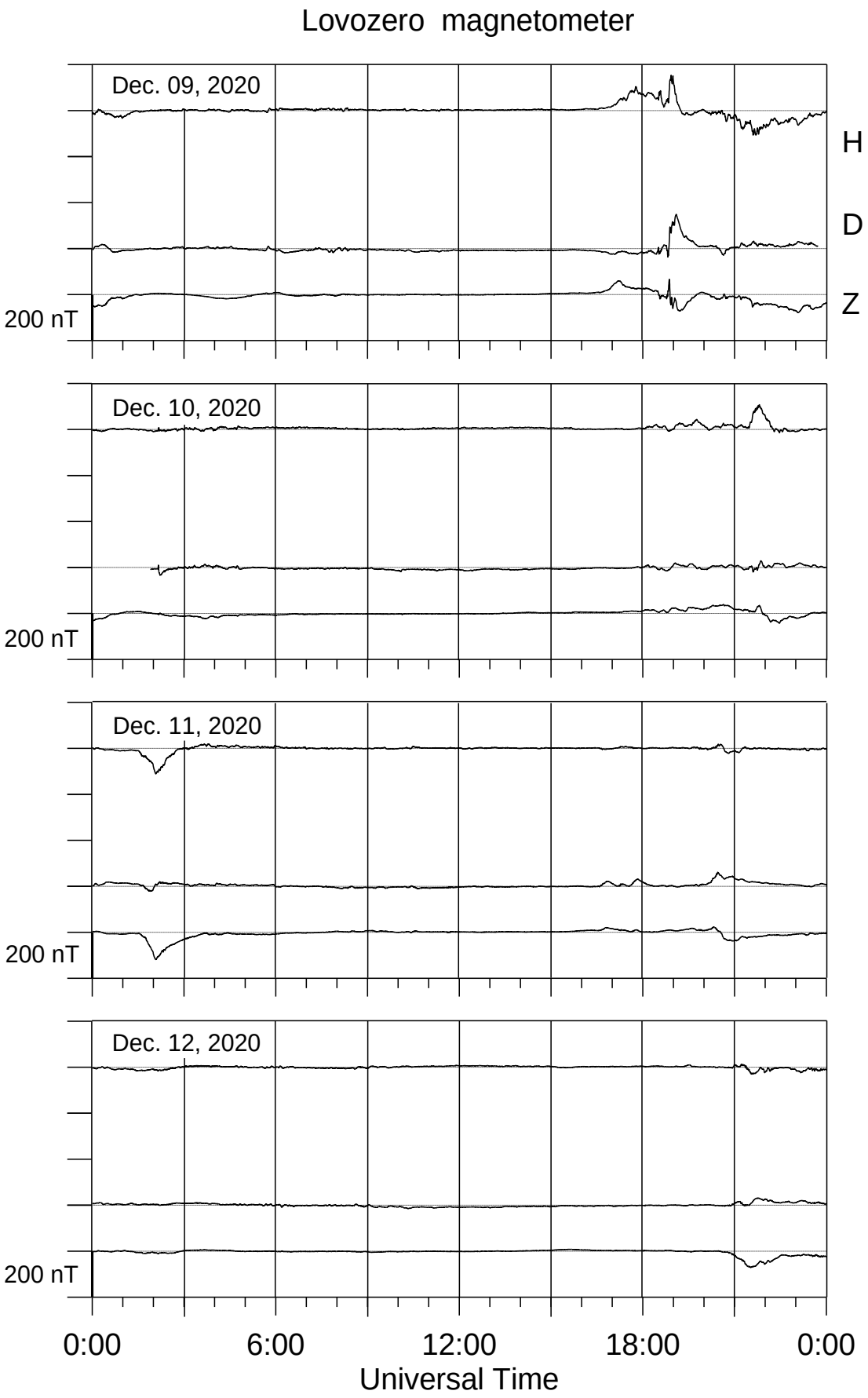

Lovozero magnetometer
Nov. 21, 2020
H
D
Z
400 nT
Nov. 22, 2020
400 nT
Nov. 23, 2020
200 nT
Nov. 24, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

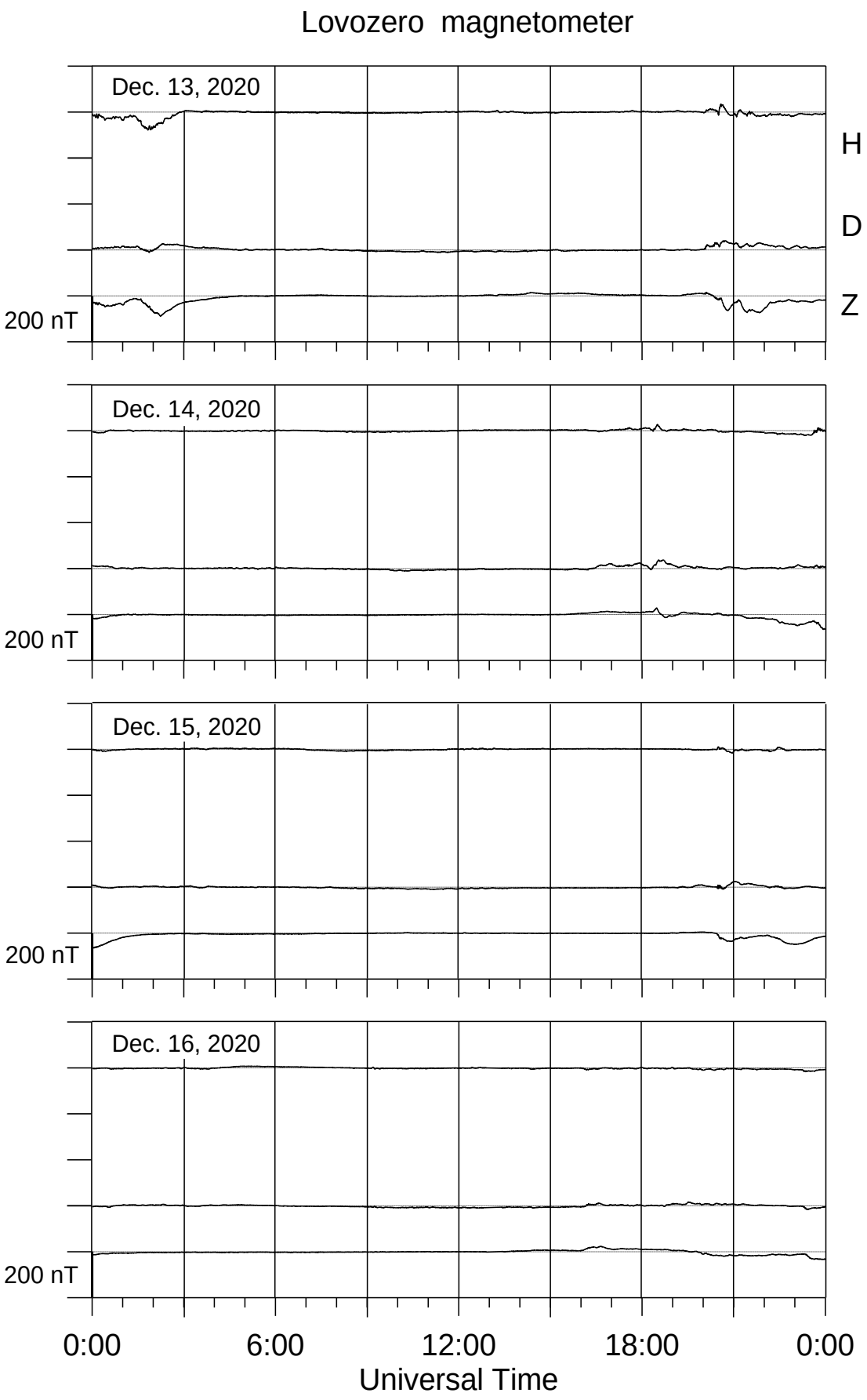

Lovozero magnetometer
Nov. 25, 2020
H
D
Z
200 nT
Nov. 26, 2020
200 nT
Nov. 27, 2020
200 nT
Nov. 28, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

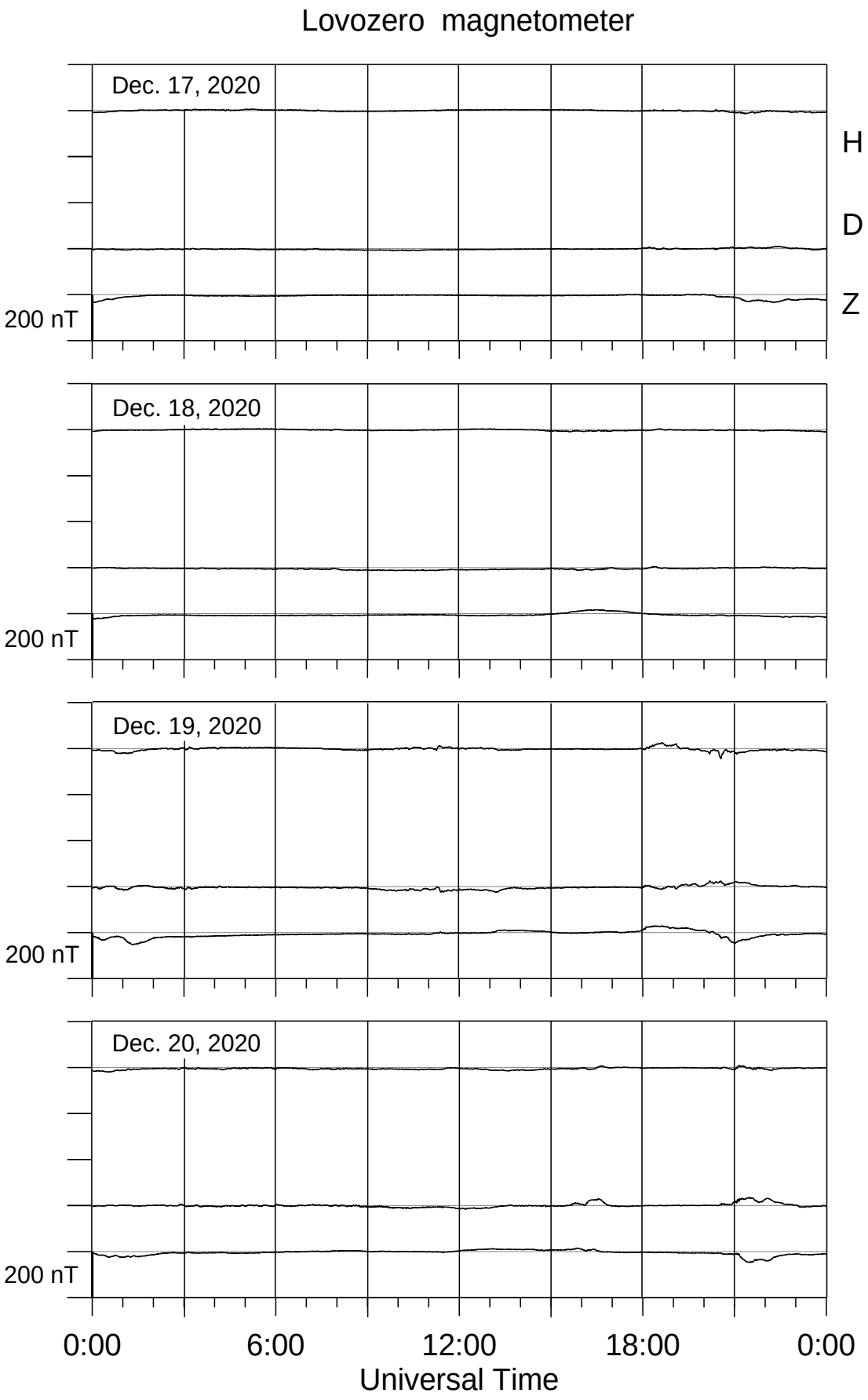

Lovozero magnetometer
Nov. 29, 2020
H
D
Z
200 nT
Nov. 30, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

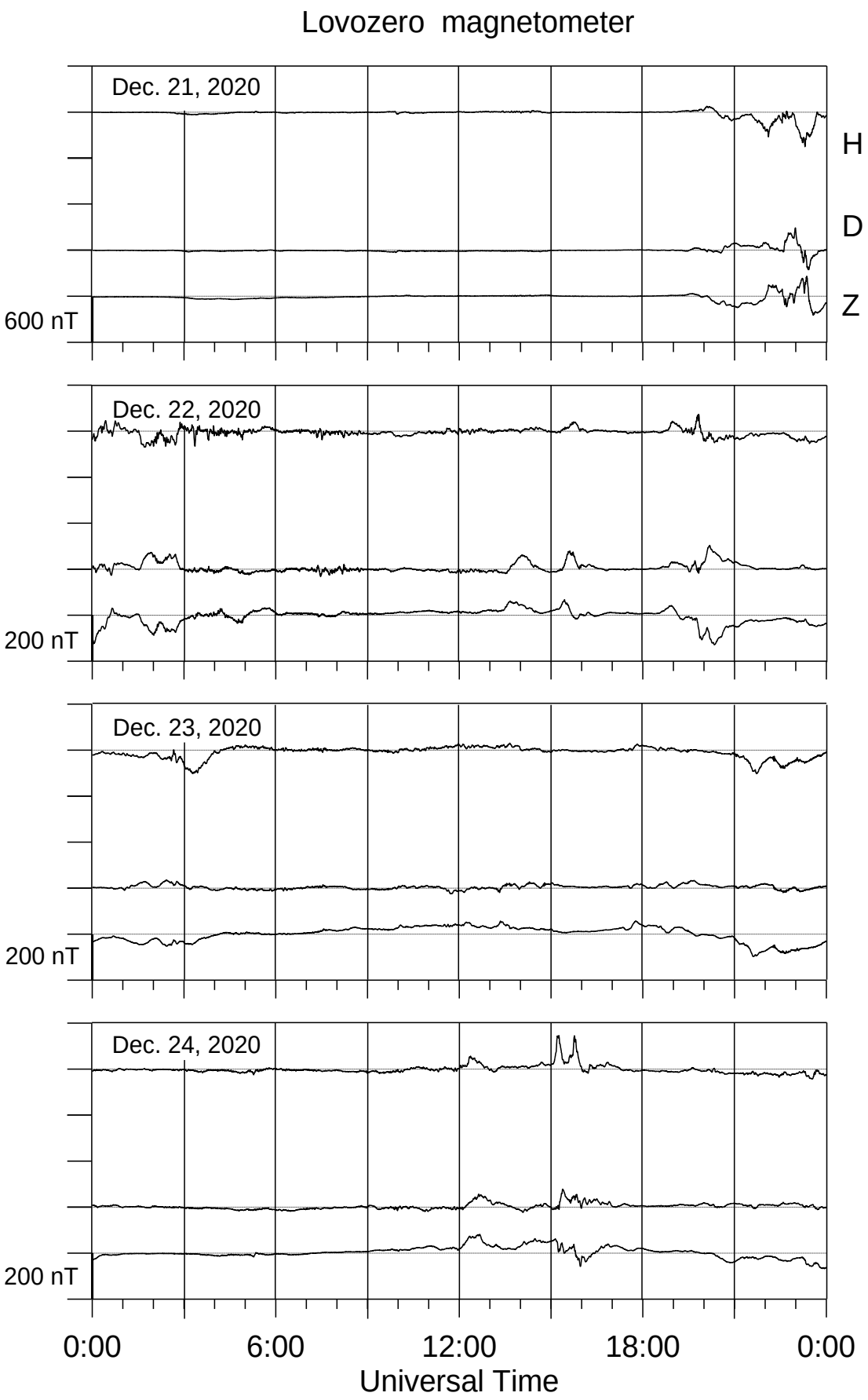

Lovozero magnetometer
Dec. 01, 2020
H
D
Z
200 nT
Dec. 02, 2020
200 nT
Dec. 03, 2020
200 nT
Dec. 04, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

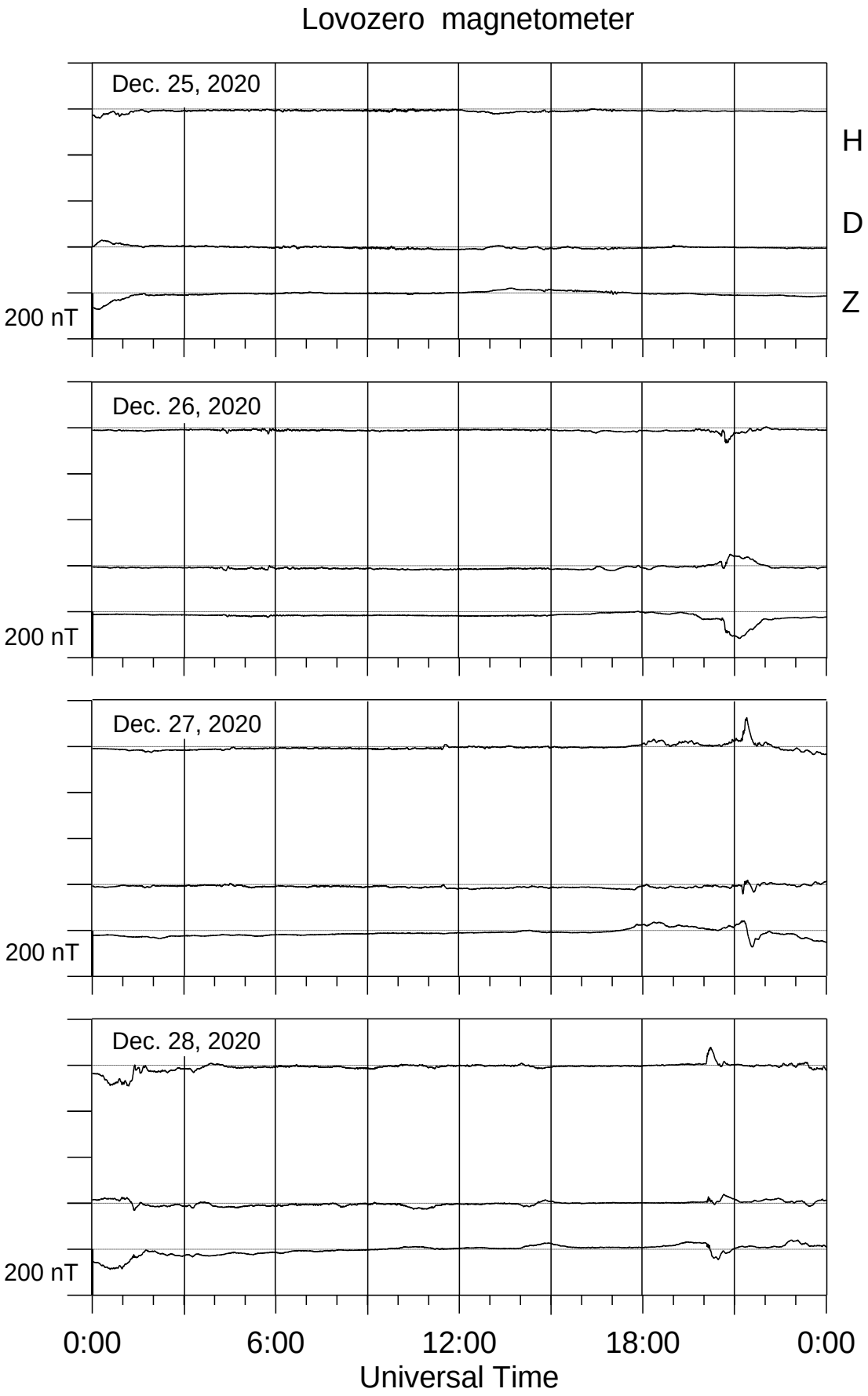

Lovozero magnetometer
Dec. 05, 2020
H
D
Z
200 nT
Dec. 06, 2020
200 nT
Dec. 07, 2020
200 nT
Dec. 08, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

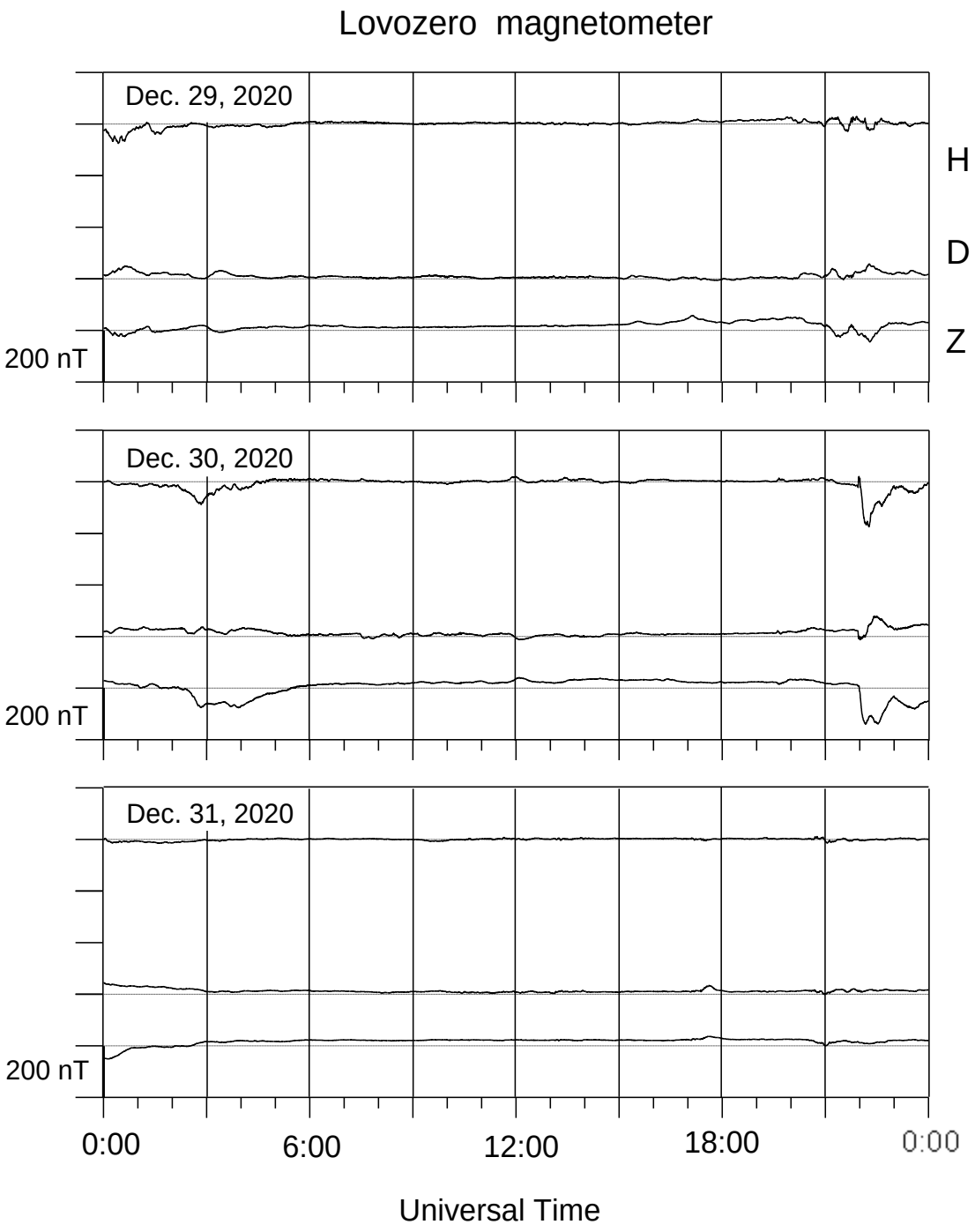

Lovozero magnetometer
Dec. 09, 2020
H
D
Z
200 nT
Dec. 10, 2020
200 nT
Dec. 11, 2020
200 nT
Dec. 12, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time


Lovozero magnetometer
Dec. 13, 2020
H
D
Z
200 nT
Dec. 14, 2020
200 nT
Dec. 15, 2020
200 nT
Dec. 16, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time


Lovozero magnetometer
Dec. 17, 2020
H
D
Z
200 nT
Dec. 18, 2020
200 nT
Dec. 19, 2020
200 nT
Dec. 20, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

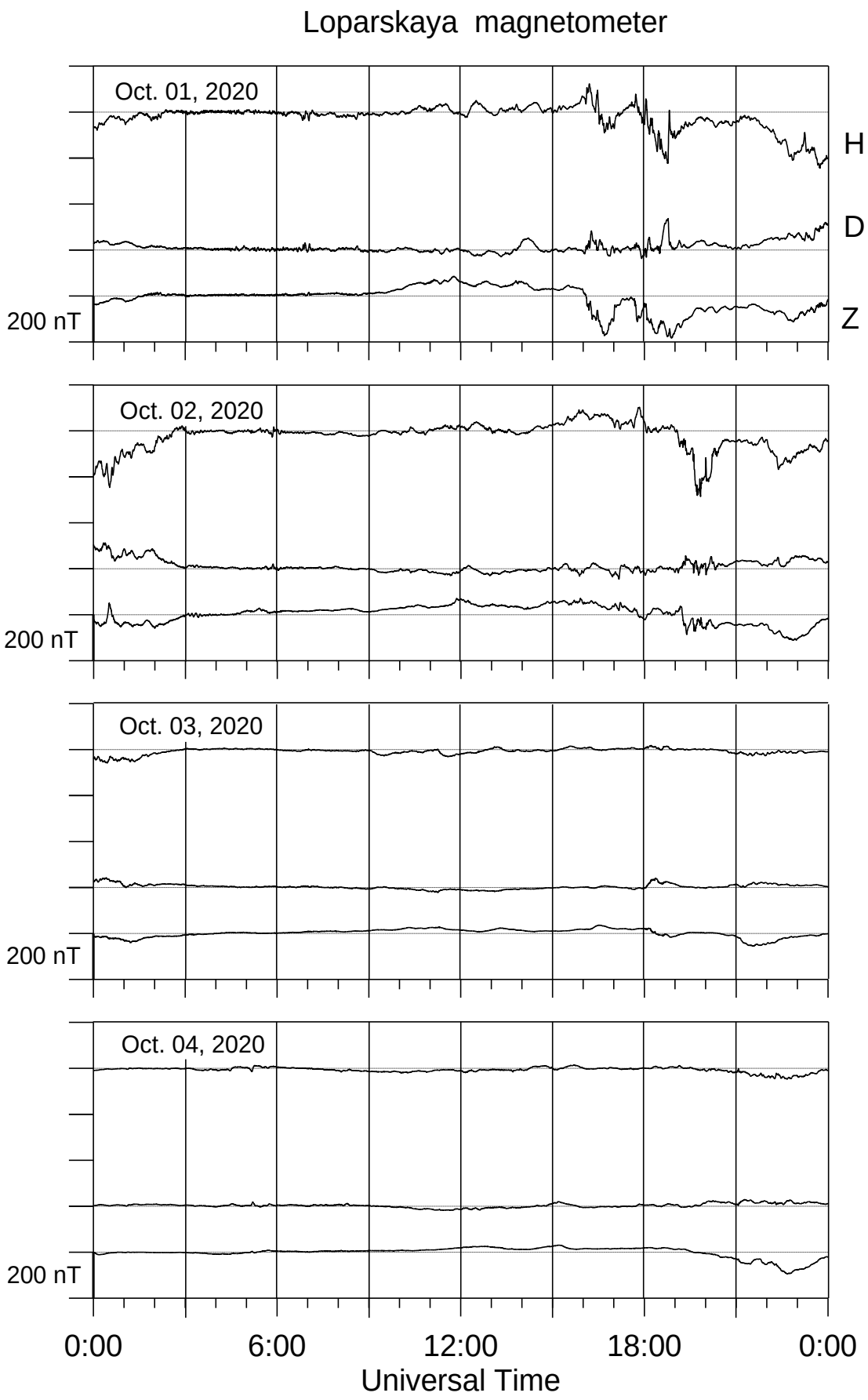

Lovozero magnetometer
Dec. 21, 2020
H
D
Z
600 nT
Dec. 22, 2020
200 nT
Dec. 23, 2020
200 nT
Dec. 24, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

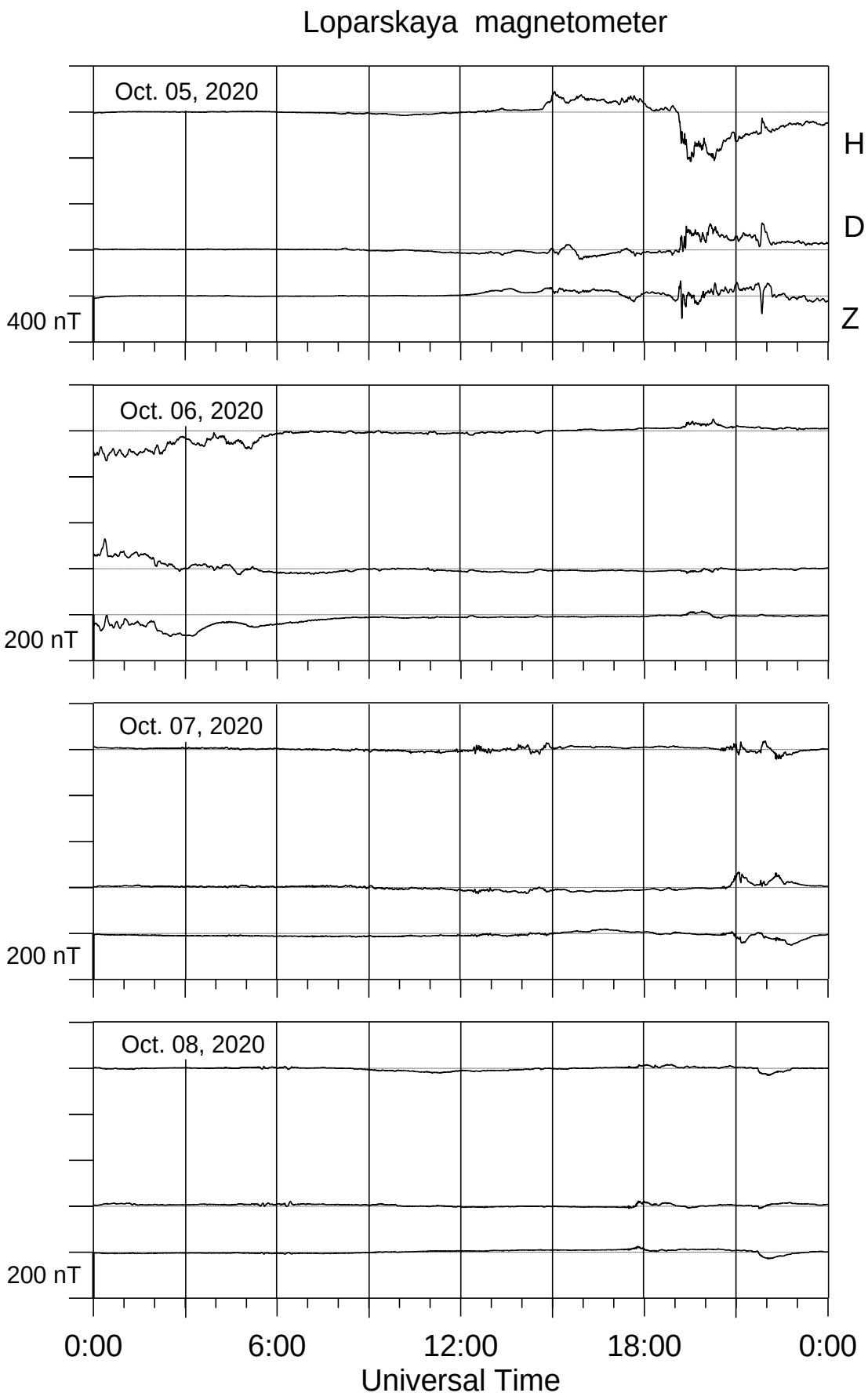

Lovozero magnetometer
Dec. 25, 2020
H
D
Z
200 nT
Dec. 26, 2020
200 nT
Dec. 27, 2020
200 nT
Dec. 28, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

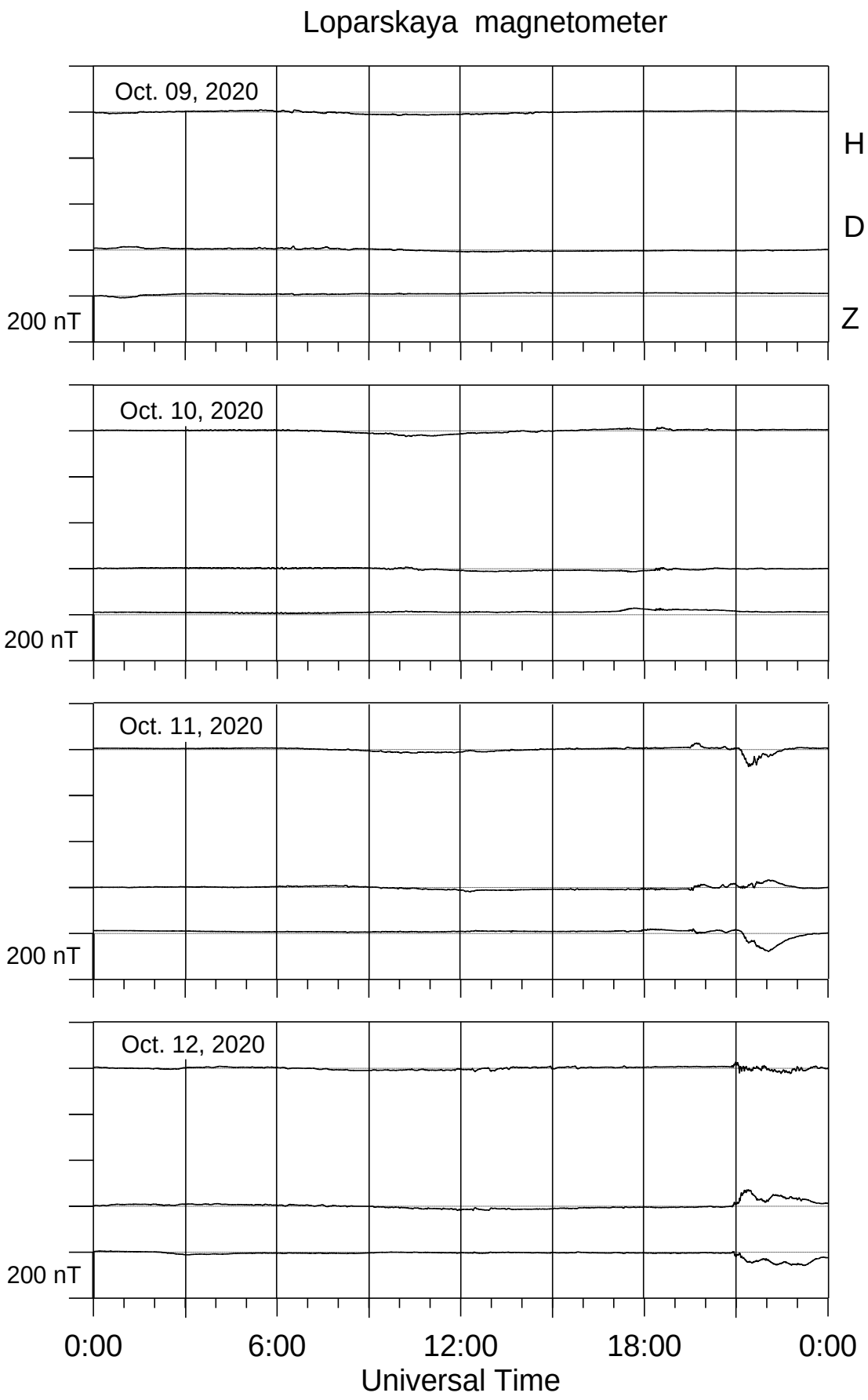

Lovozero magnetometer
Dec. 29, 2020
H
D
Z
200 nT
Dec. 30, 2020
200 nT
Dec. 31, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

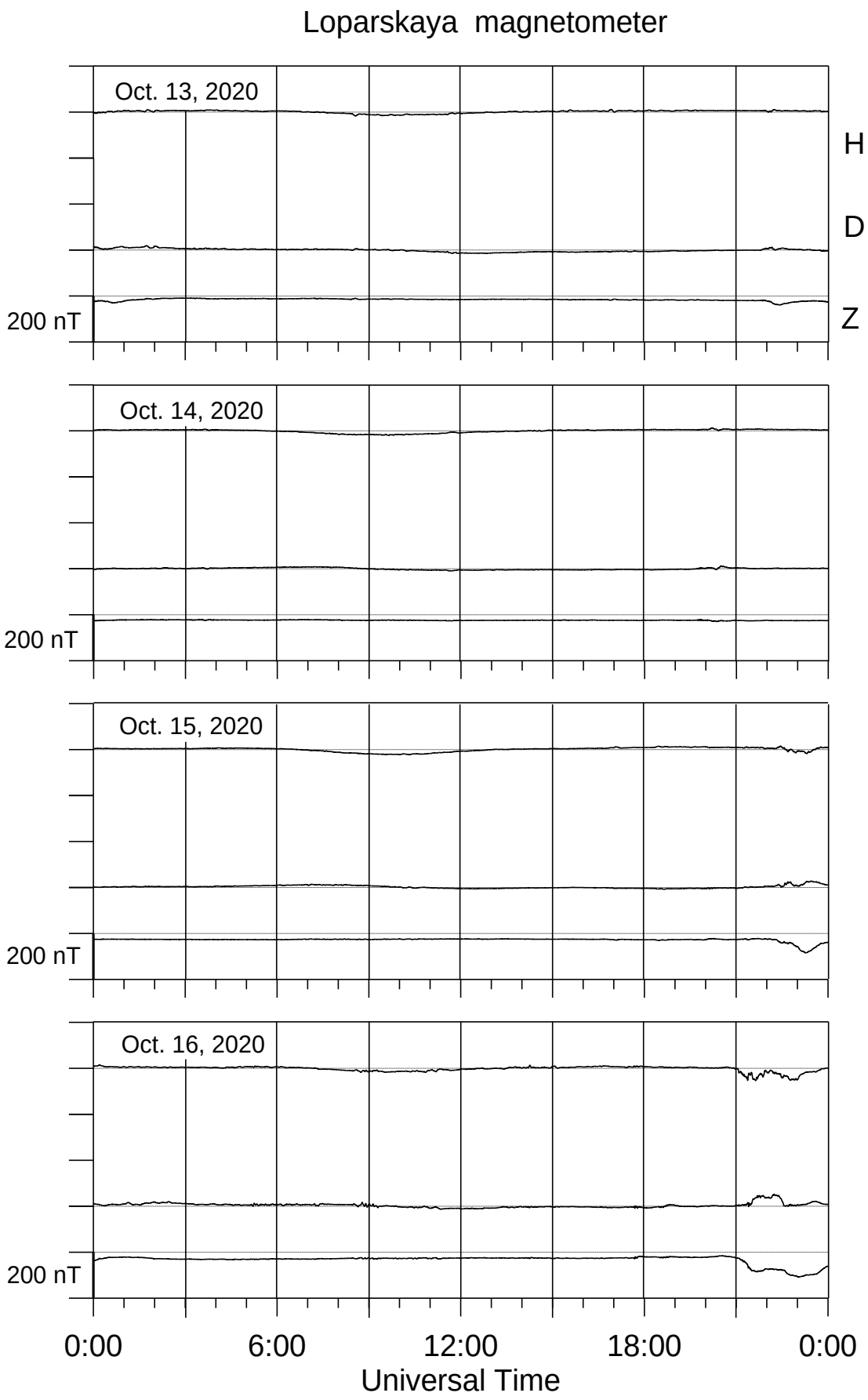
LOPARSKAYA MAGNETOGRAMS

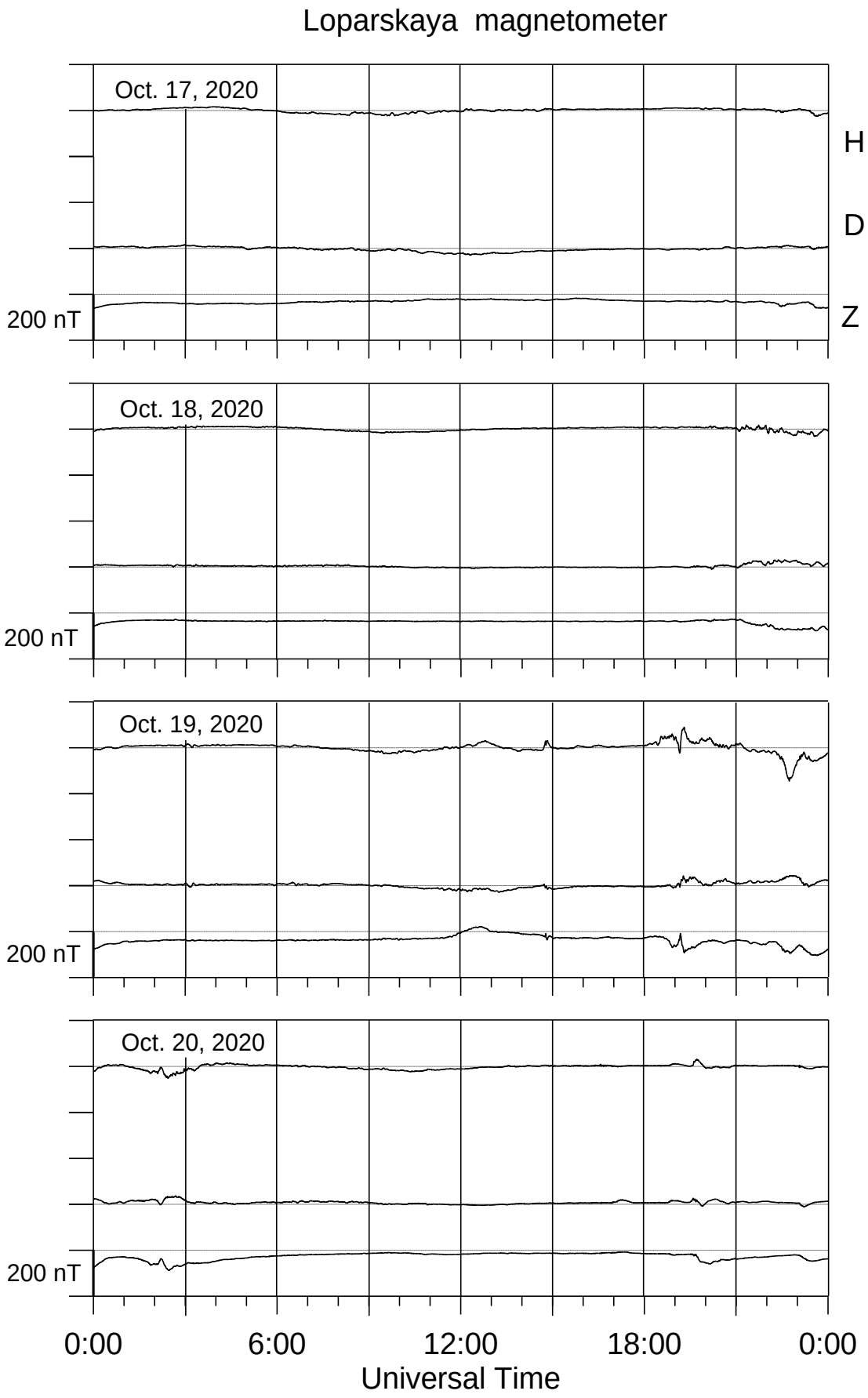
October - December 2020

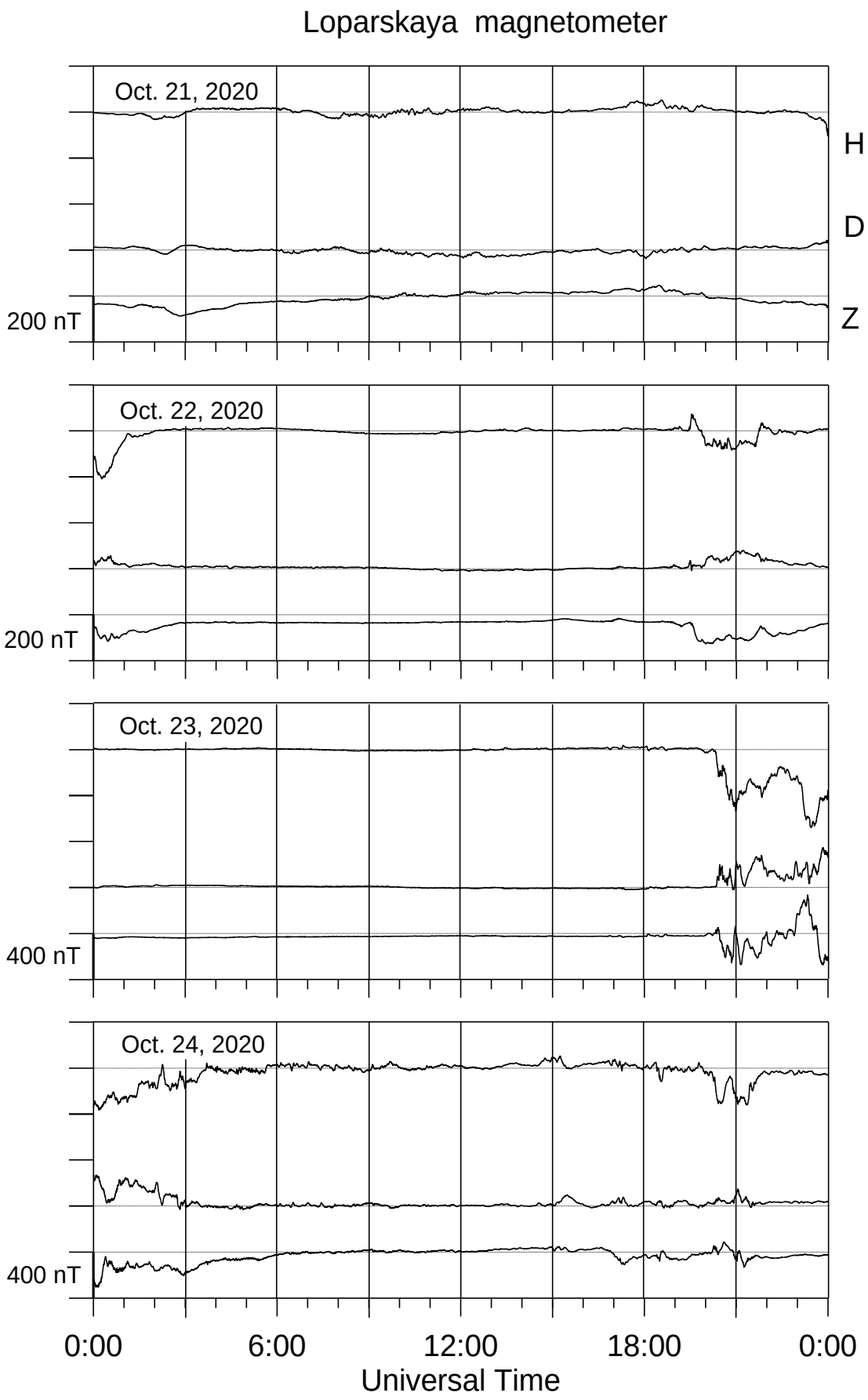

Loparskaya magnetometer
Oct. 01, 2020
H
D
Z
200 nT
Oct. 02, 2020
200 nT
Oct. 03, 2020
200 nT
Oct. 04, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

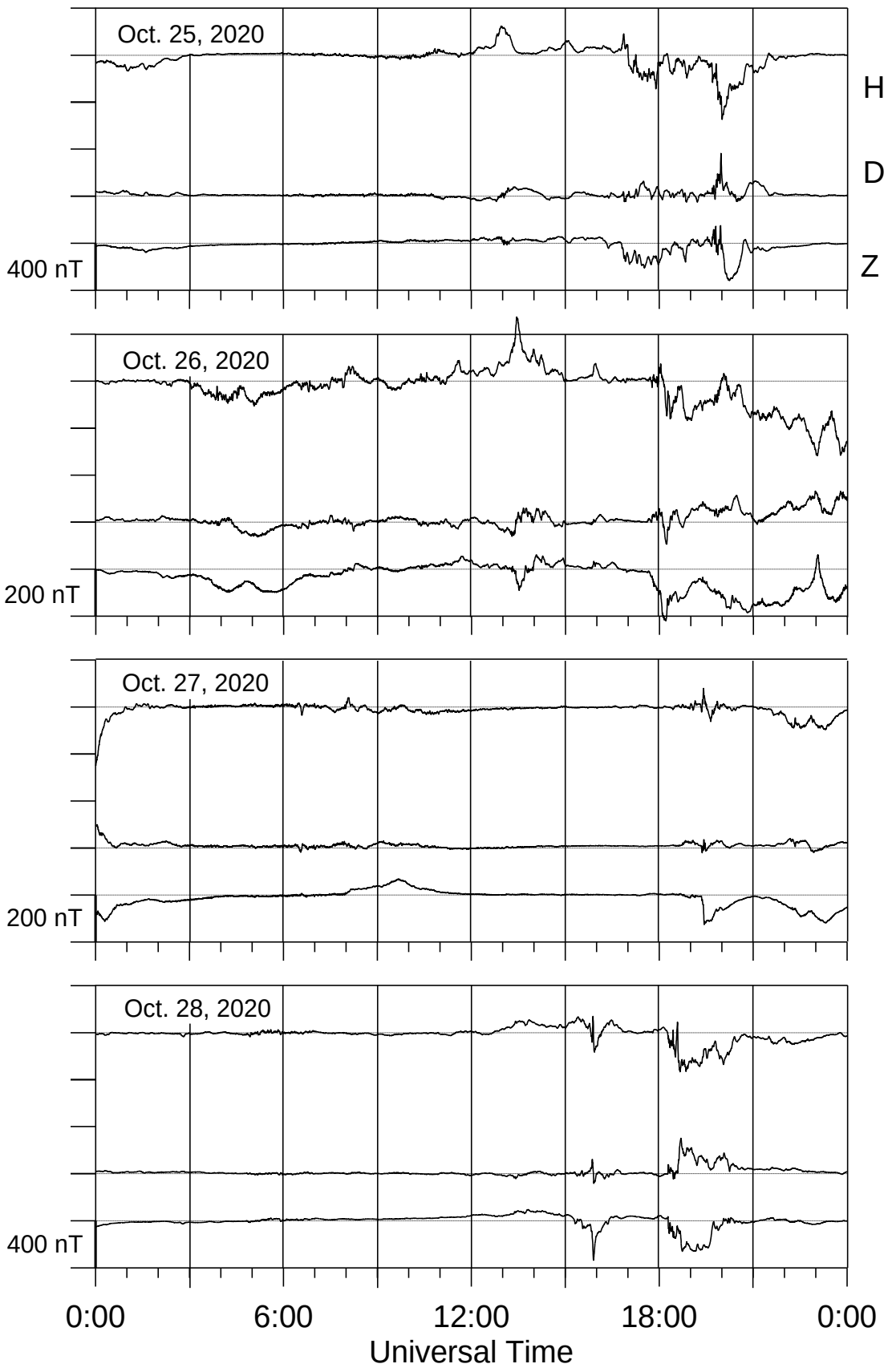

Loparskaya magnetometer
Oct. 05, 2020
H
D
Z
400 nT
Oct. 06, 2020
200 nT
Oct. 07, 2020
200 nT
Oct. 08, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

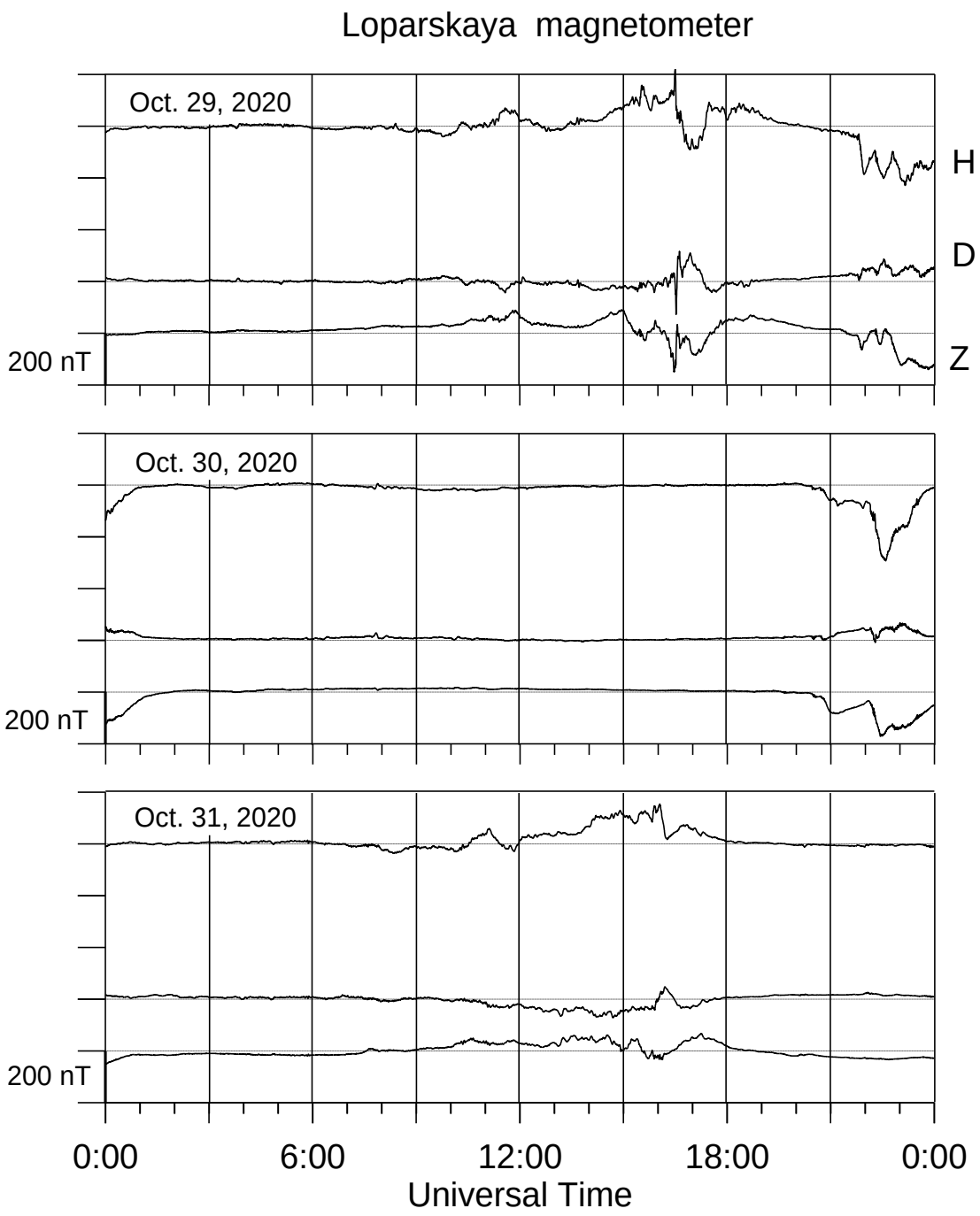

Loparskaya magnetometer
Oct. 09, 2020
H
D
Z
200 nT
Oct. 10, 2020
200 nT
Oct. 11, 2020
200 nT
Oct. 12, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

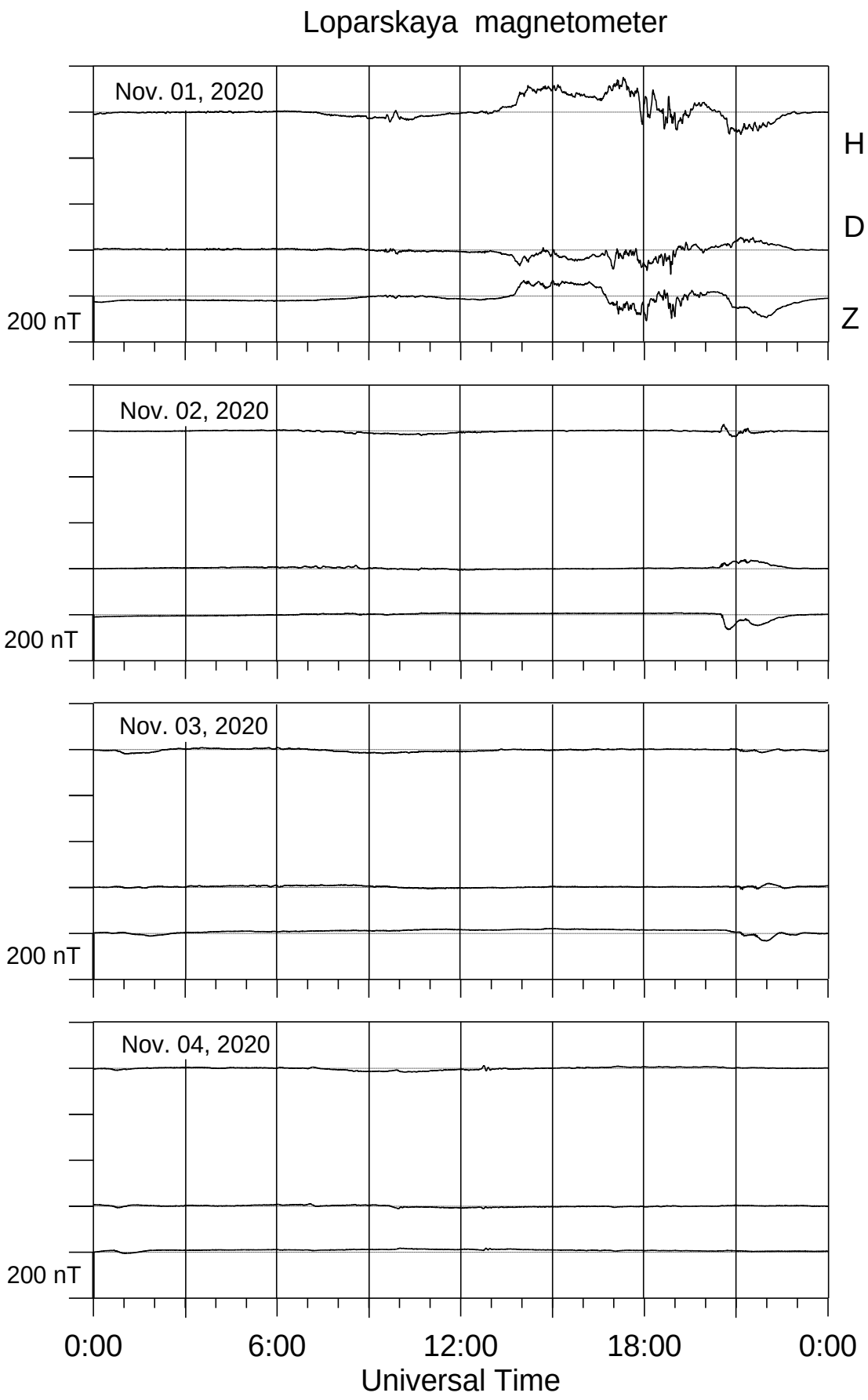

Loparskaya magnetometer
Oct. 13, 2020
H
D
Z
200 nT
Oct. 14, 2020
200 nT
Oct. 15, 2020
200 nT
Oct. 16, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

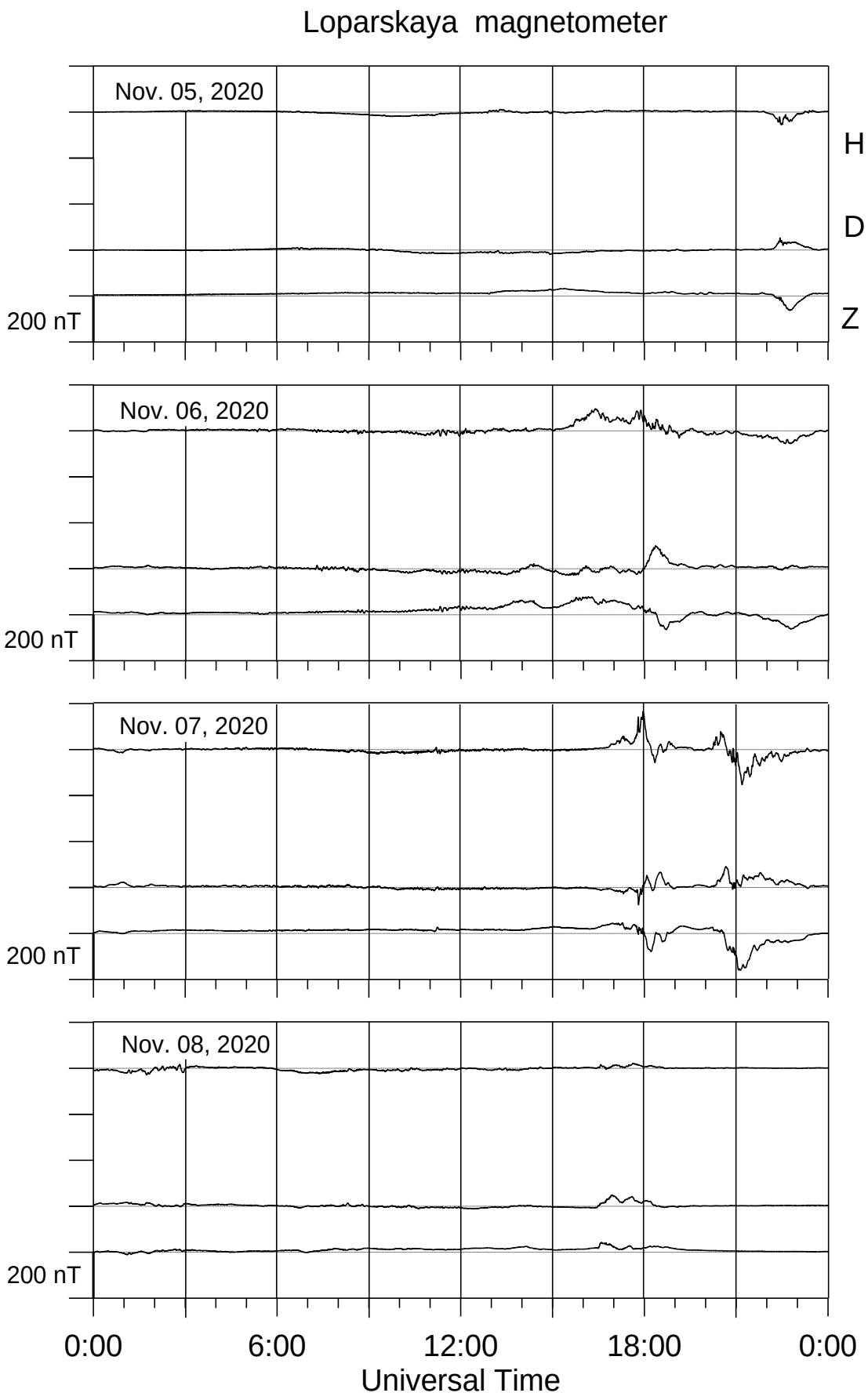

Loparskaya magnetometer
Oct. 17, 2020
H
D
Z
200 nT
Oct. 18, 2020
200 nT
Oct. 19, 2020
200 nT
Oct. 20, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

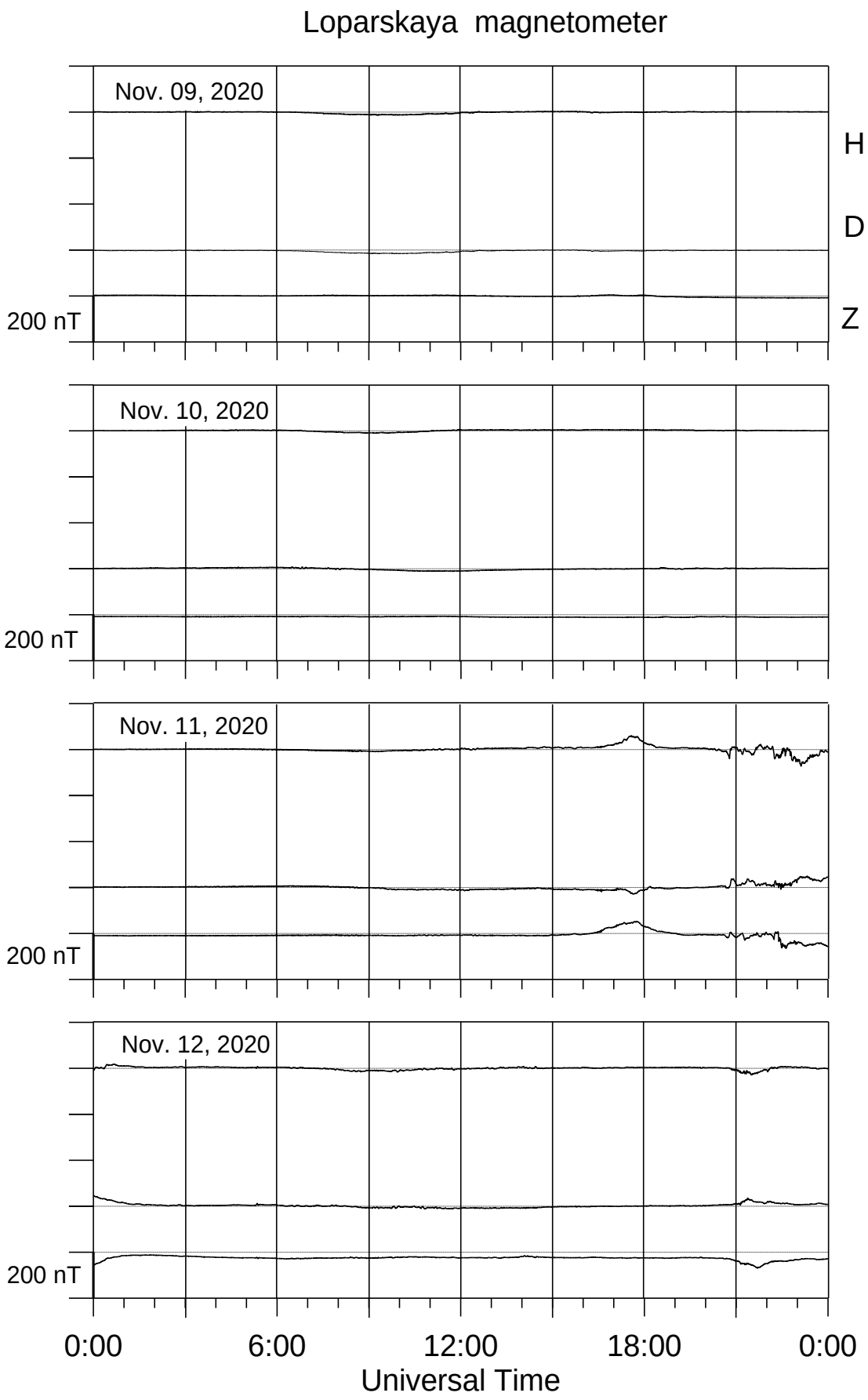

Loparskaya magnetometer
Oct. 21, 2020
H
D
Z
200 nT
Oct. 22, 2020
200 nT
Oct. 23, 2020
400 nT
Oct. 24, 2020
400 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

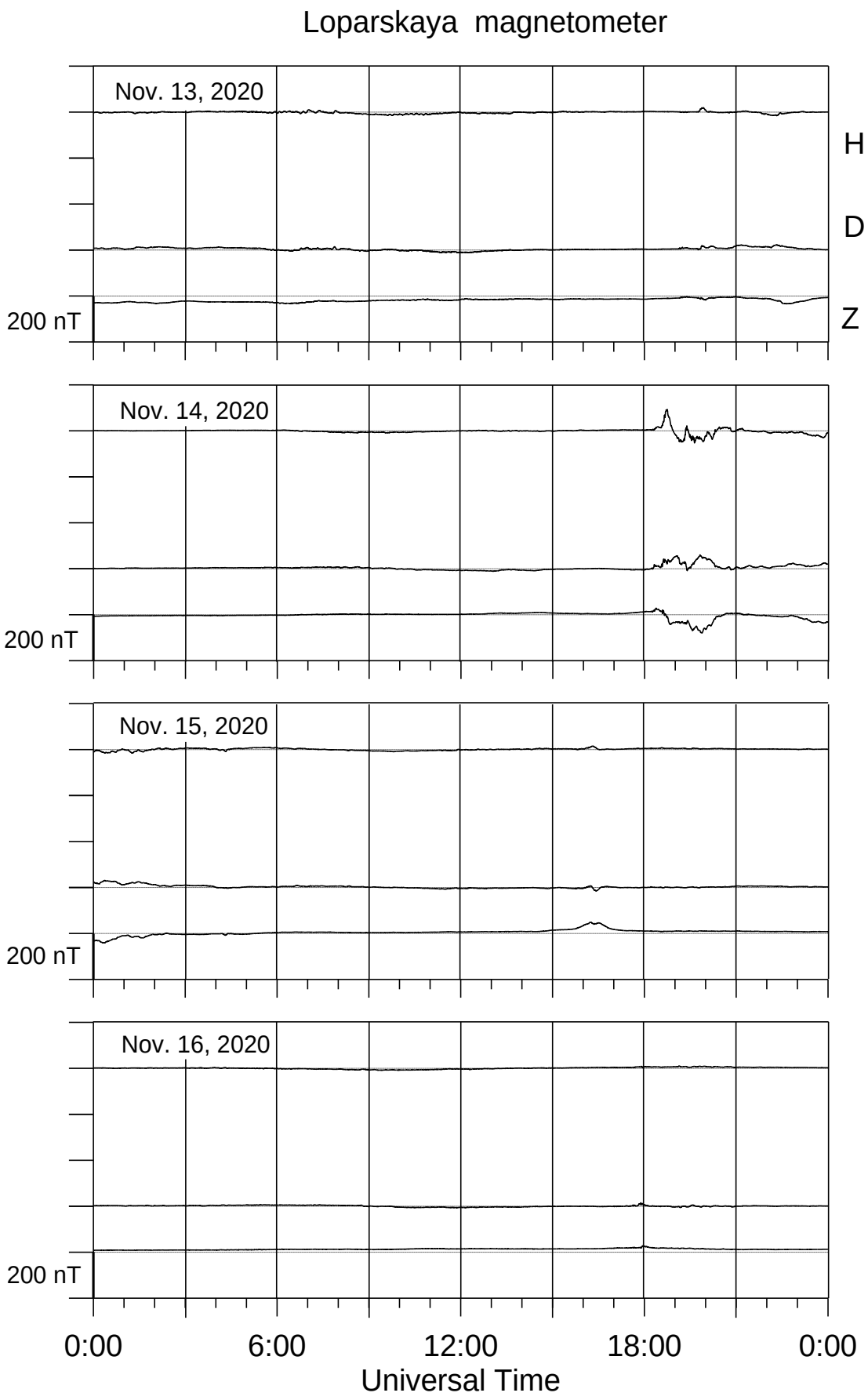

Loparskaya magnetometer
Oct. 25, 2020
H
D
Z
400 nT
Oct. 26, 2020
200 nT
Oct. 27, 2020
200 nT
Oct. 28, 2020
400 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

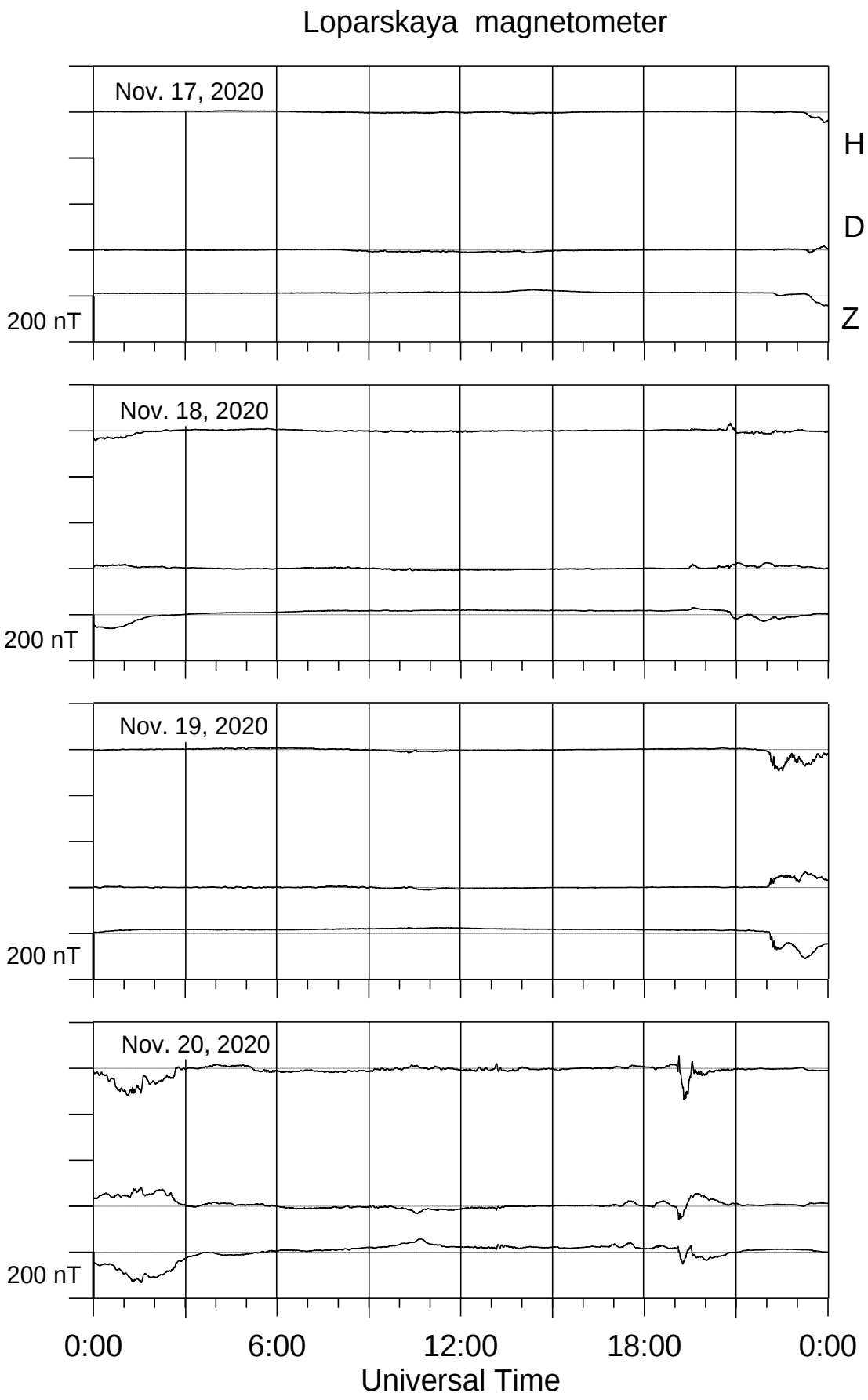

Loparskaya magnetometer
Oct. 29, 2020
H
D
Z
200 nT
Oct. 30, 2020
200 nT
Oct. 31, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

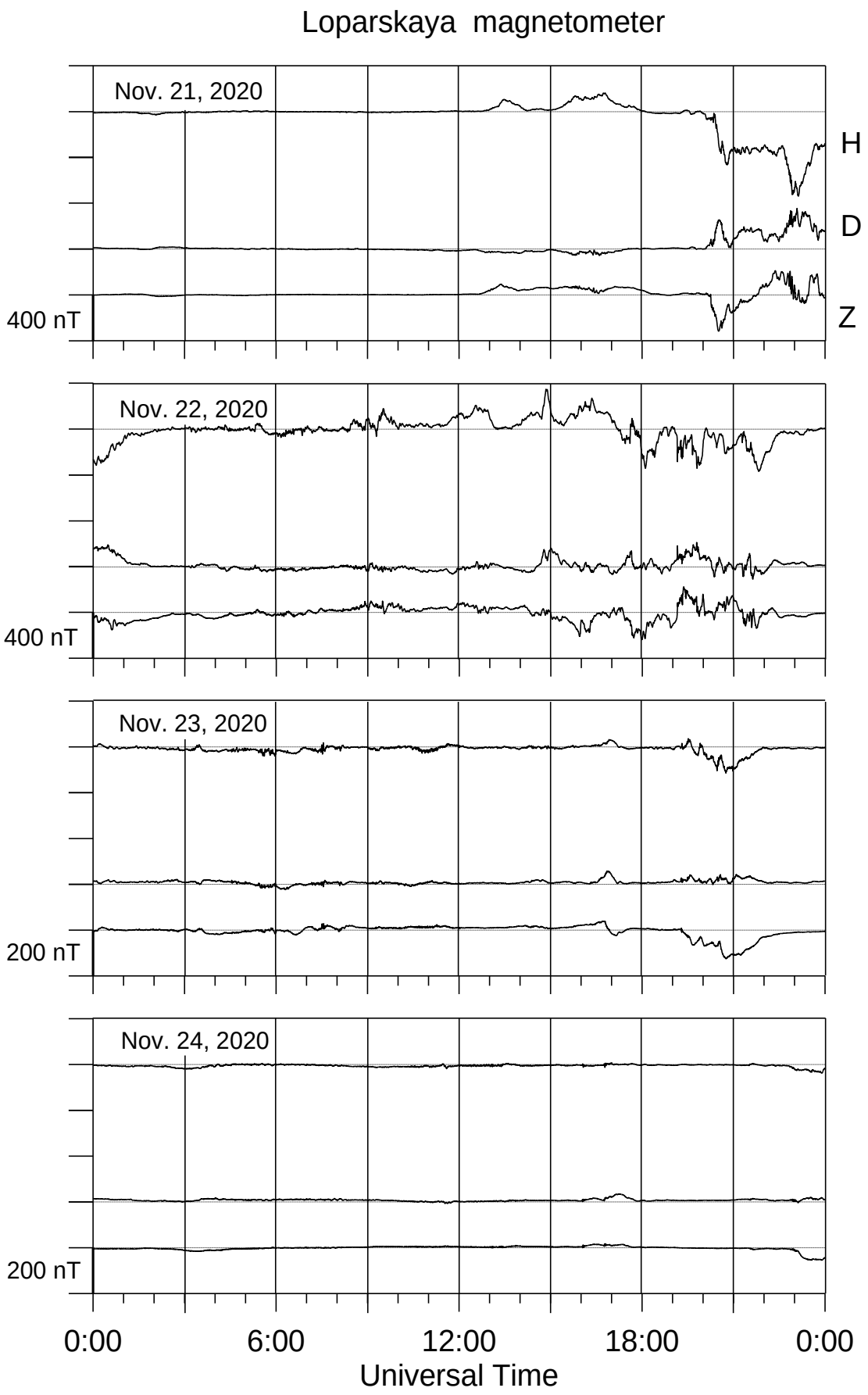

Loparskaya magnetometer
Nov. 01, 2020
H
D
Z
200 nT
Nov. 02, 2020
200 nT
Nov. 03, 2020
200 nT
Nov. 04, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

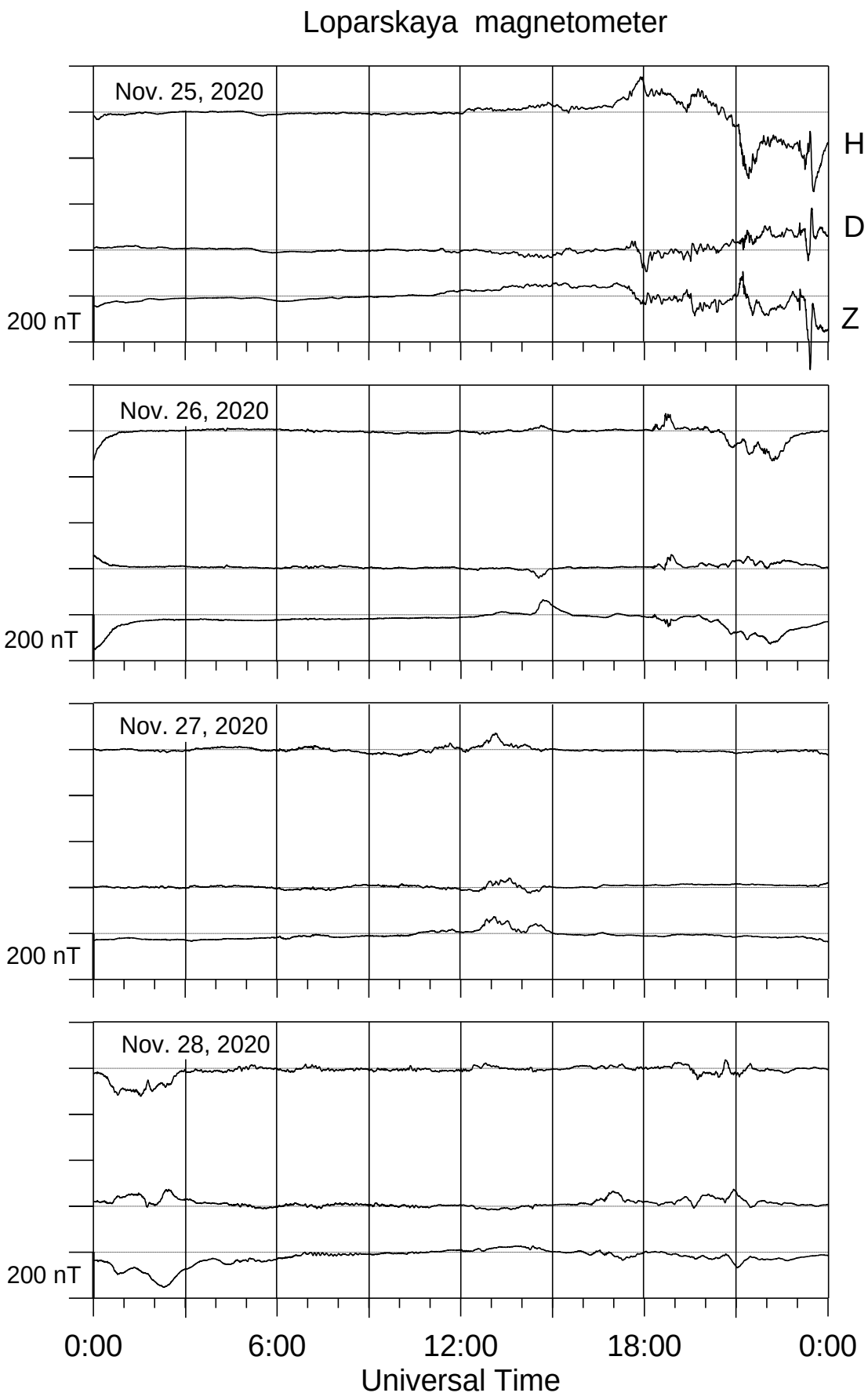

Loparskaya magnetometer
Nov. 05, 2020
H
D
Z
200 nT
Nov. 06, 2020
200 nT
Nov. 07, 2020
200 nT
Nov. 08, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

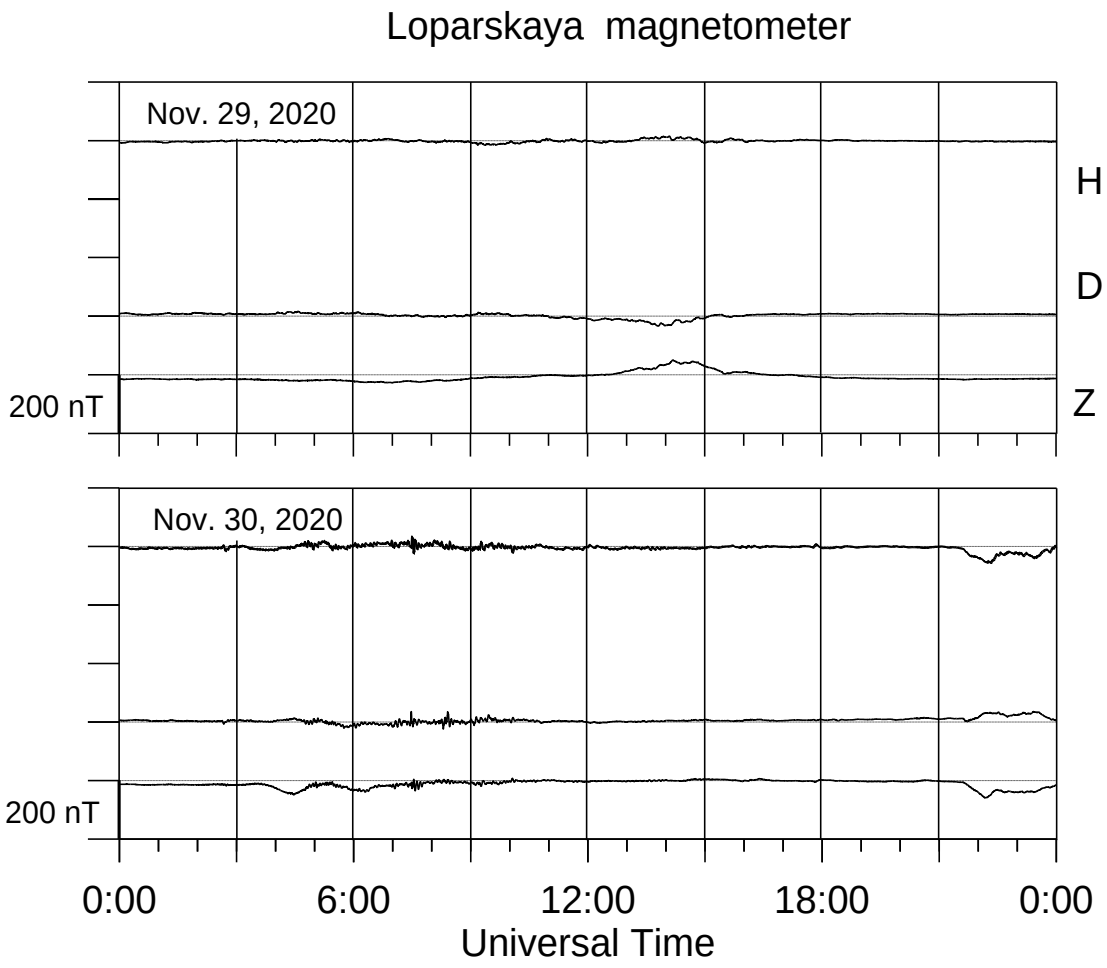

Loparskaya magnetometer
Nov. 09, 2020
H
D
Z
200 nT
Nov. 10, 2020
200 nT
Nov. 11, 2020
200 nT
Nov. 12, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

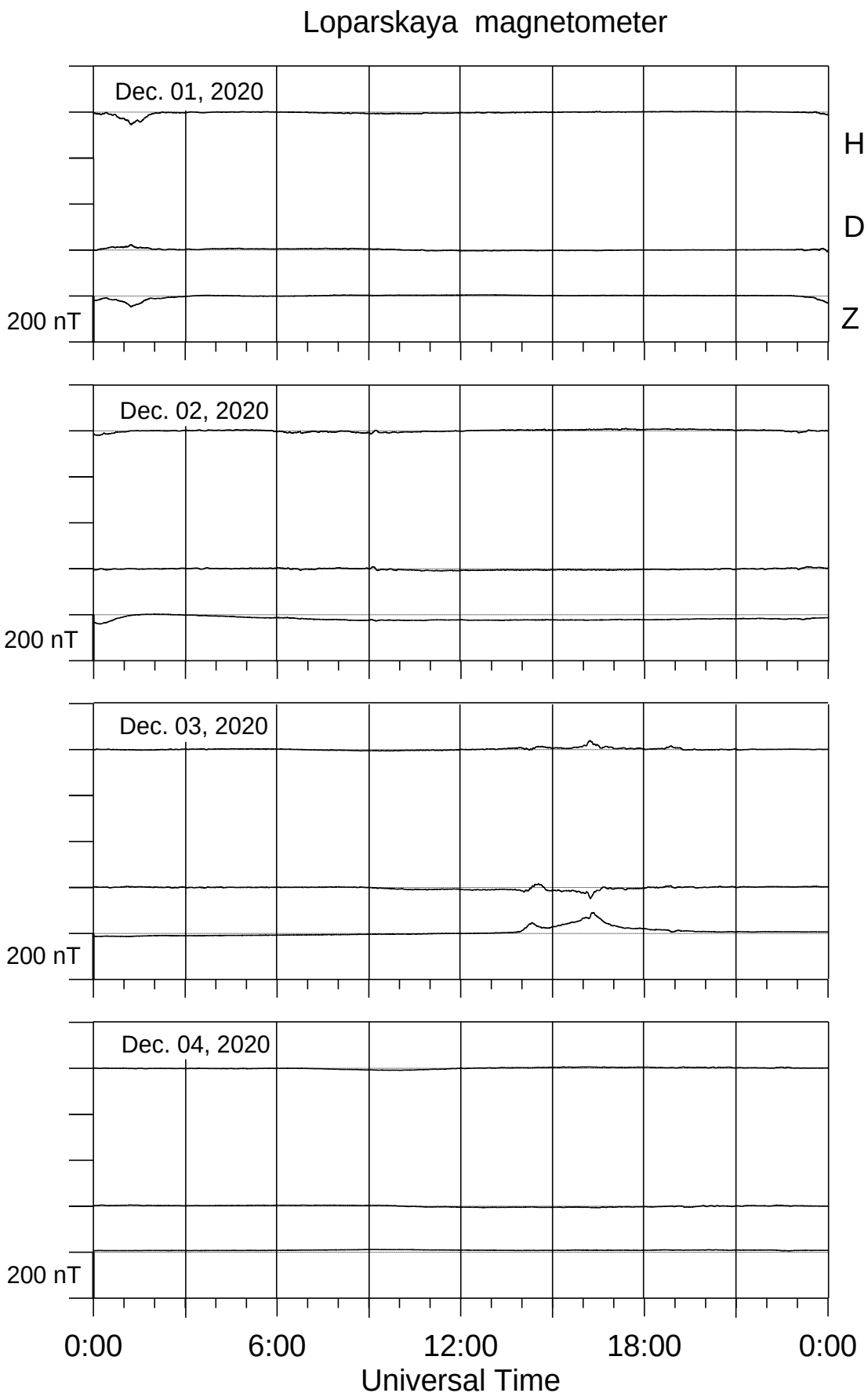

Loparskaya magnetometer
Nov. 13, 2020
H
D
Z
200 nT
Nov. 14, 2020
200 nT
Nov. 15, 2020
200 nT
Nov. 16, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

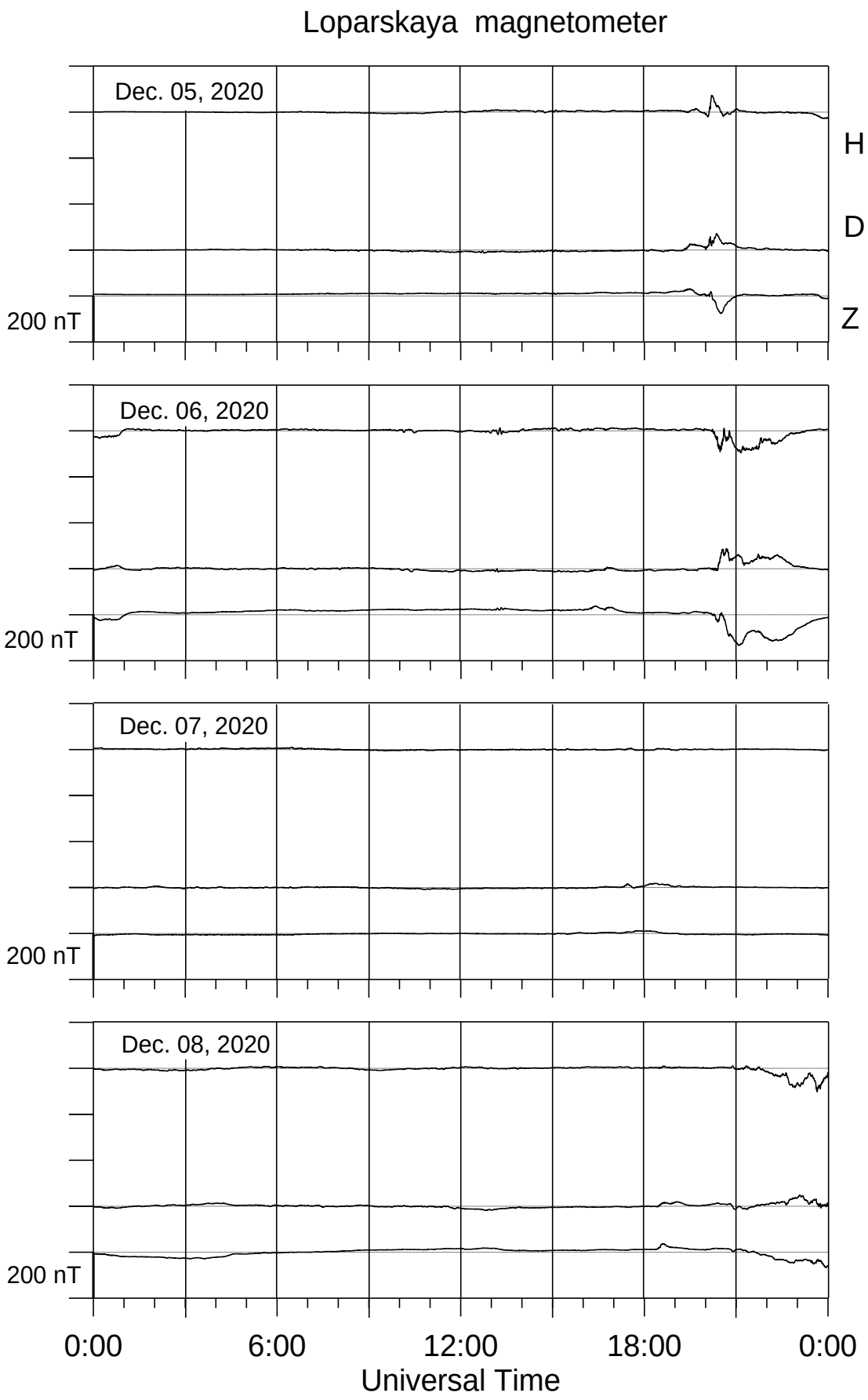

Loparskaya magnetometer
Nov. 17, 2020
H
D
Z
200 nT
Nov. 18, 2020
200 nT
Nov. 19, 2020
200 nT
Nov. 20, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

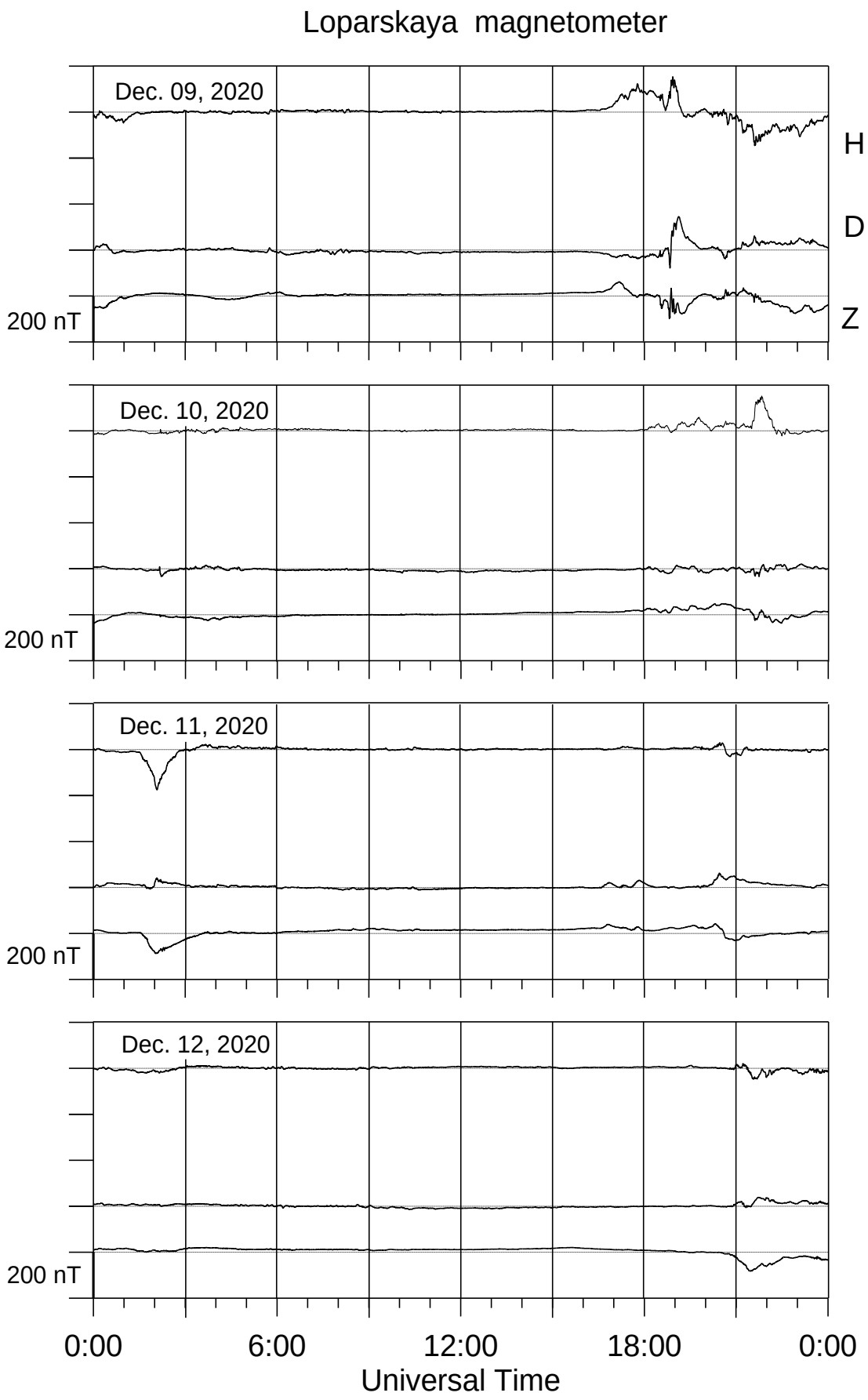

Loparskaya magnetometer
Nov. 21, 2020
H
D
Z
400 nT
Nov. 22, 2020
400 nT
Nov. 23, 2020
200 nT
Nov. 24, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

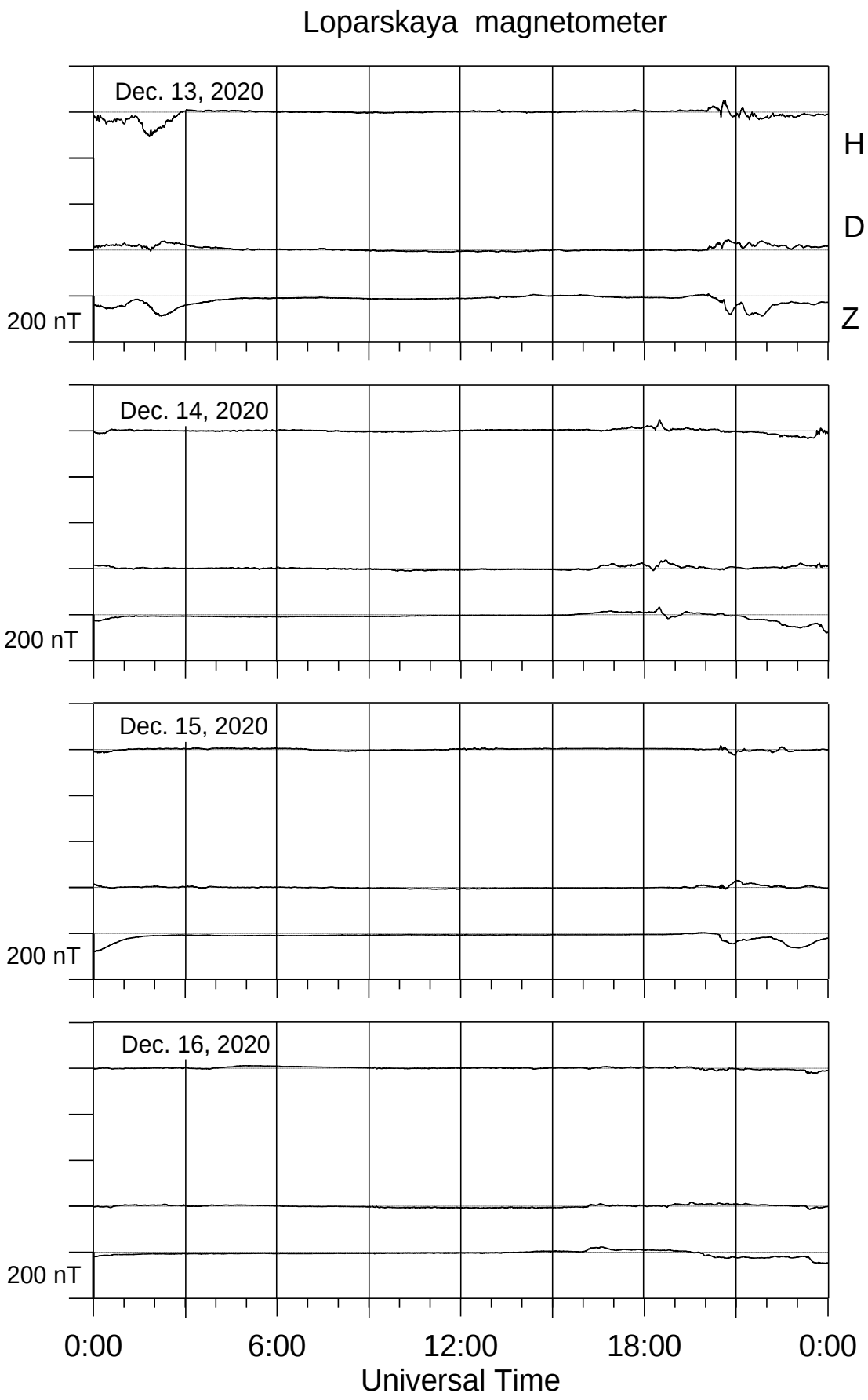

Loparskaya magnetometer
Nov. 25, 2020
H
D
Z
200 nT
Nov. 26, 2020
200 nT
Nov. 27, 2020
200 nT
Nov. 28, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

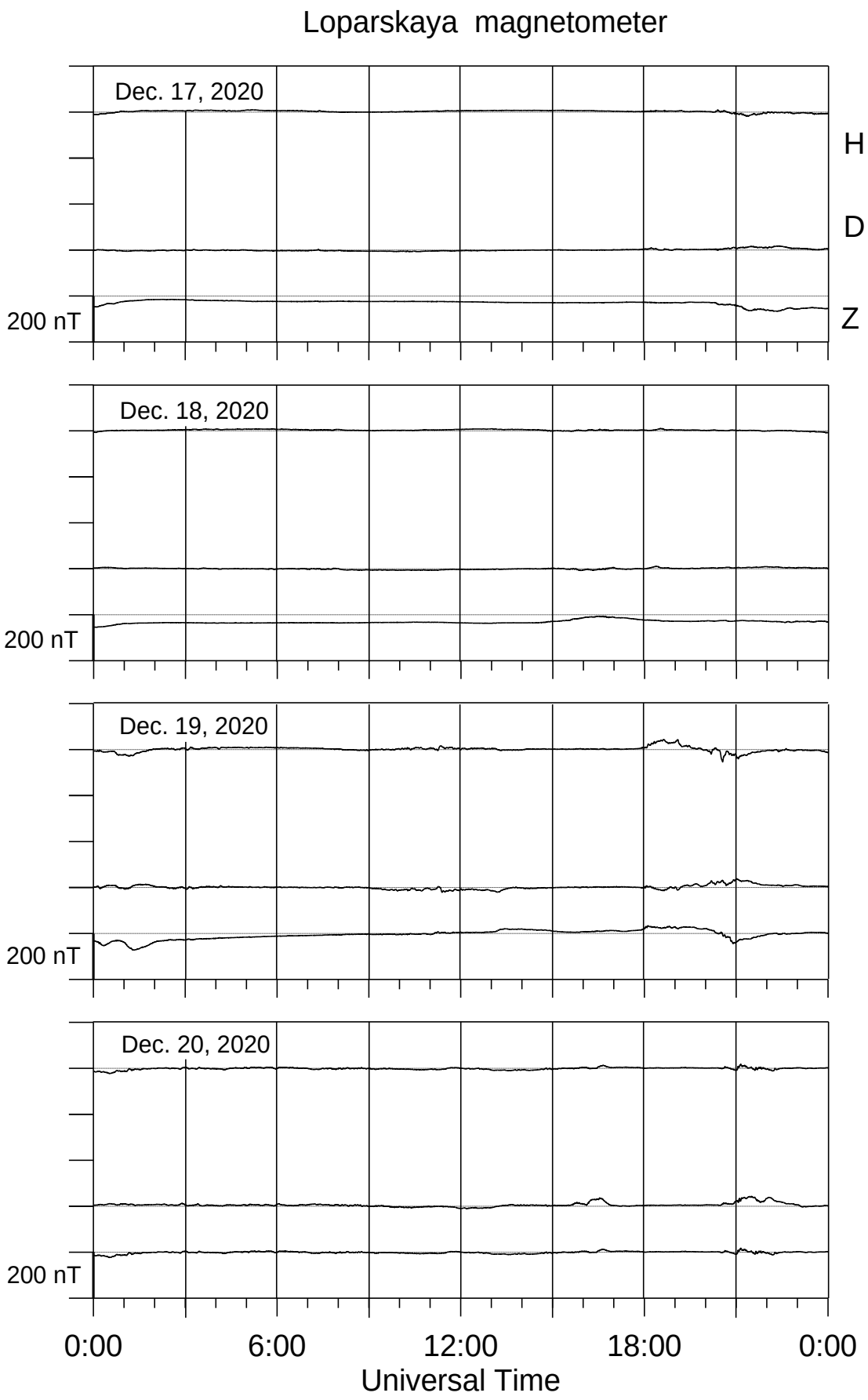

Loparskaya magnetometer
Nov. 29, 2020
H
D
Z
200 nT
Nov. 30, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

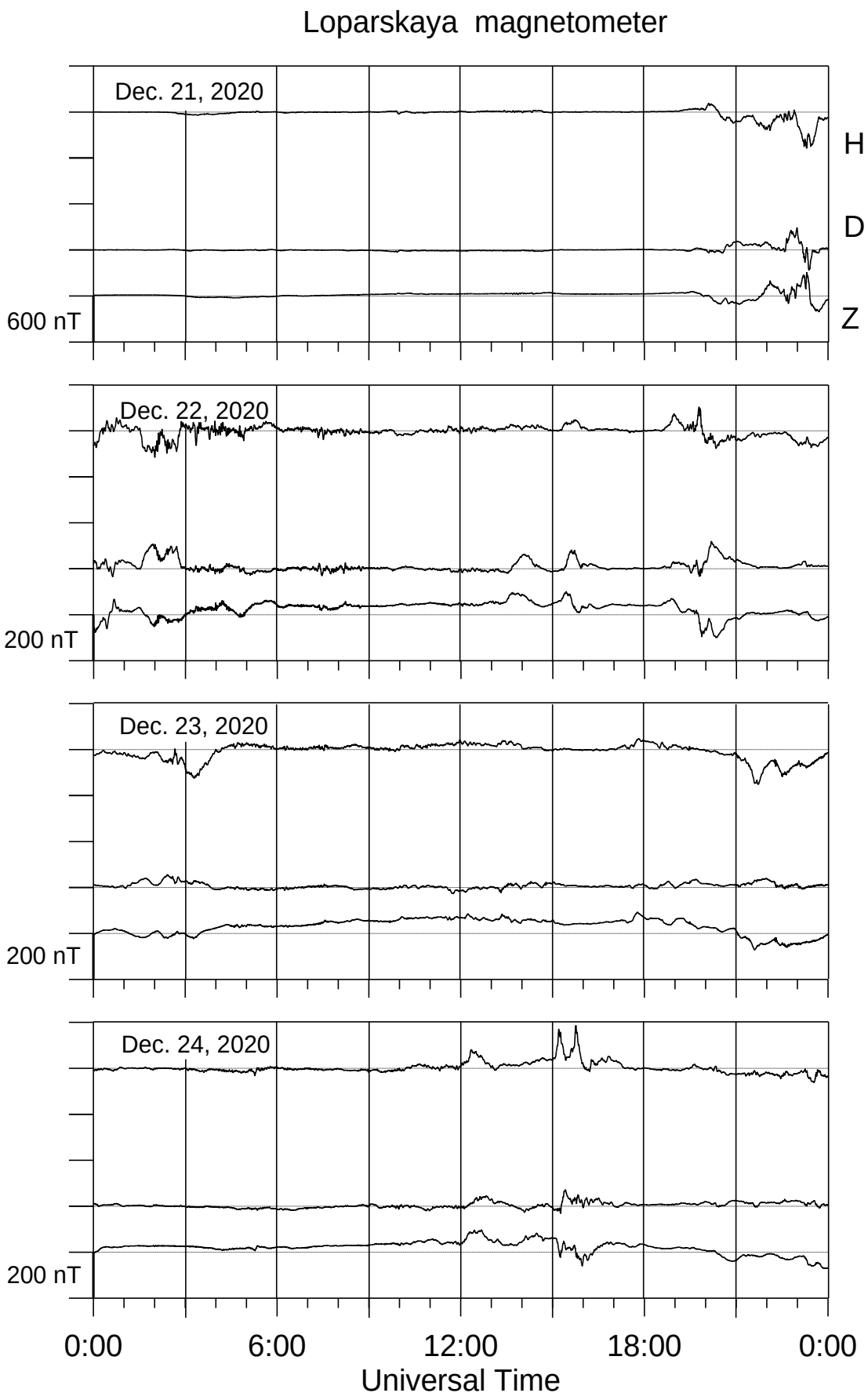

Loparskaya magnetometer
Dec. 01, 2020
H
D
Z
200 nT
Dec. 02, 2020
200 nT
Dec. 03, 2020
200 nT
Dec. 04, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

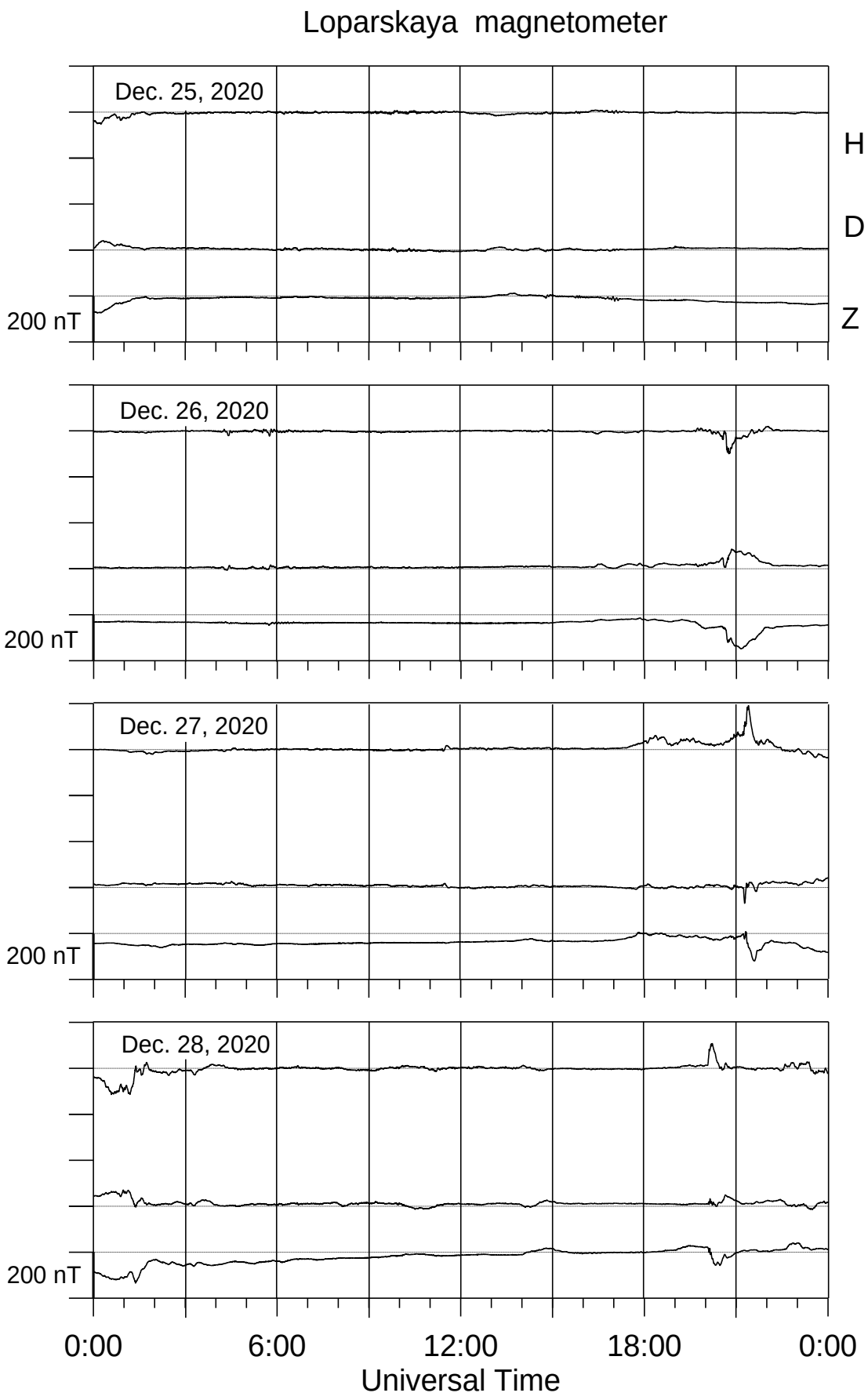

Loparskaya magnetometer
Dec. 05, 2020
H
D
Z
200 nT
Dec. 06, 2020
200 nT
Dec. 07, 2020
200 nT
Dec. 08, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time

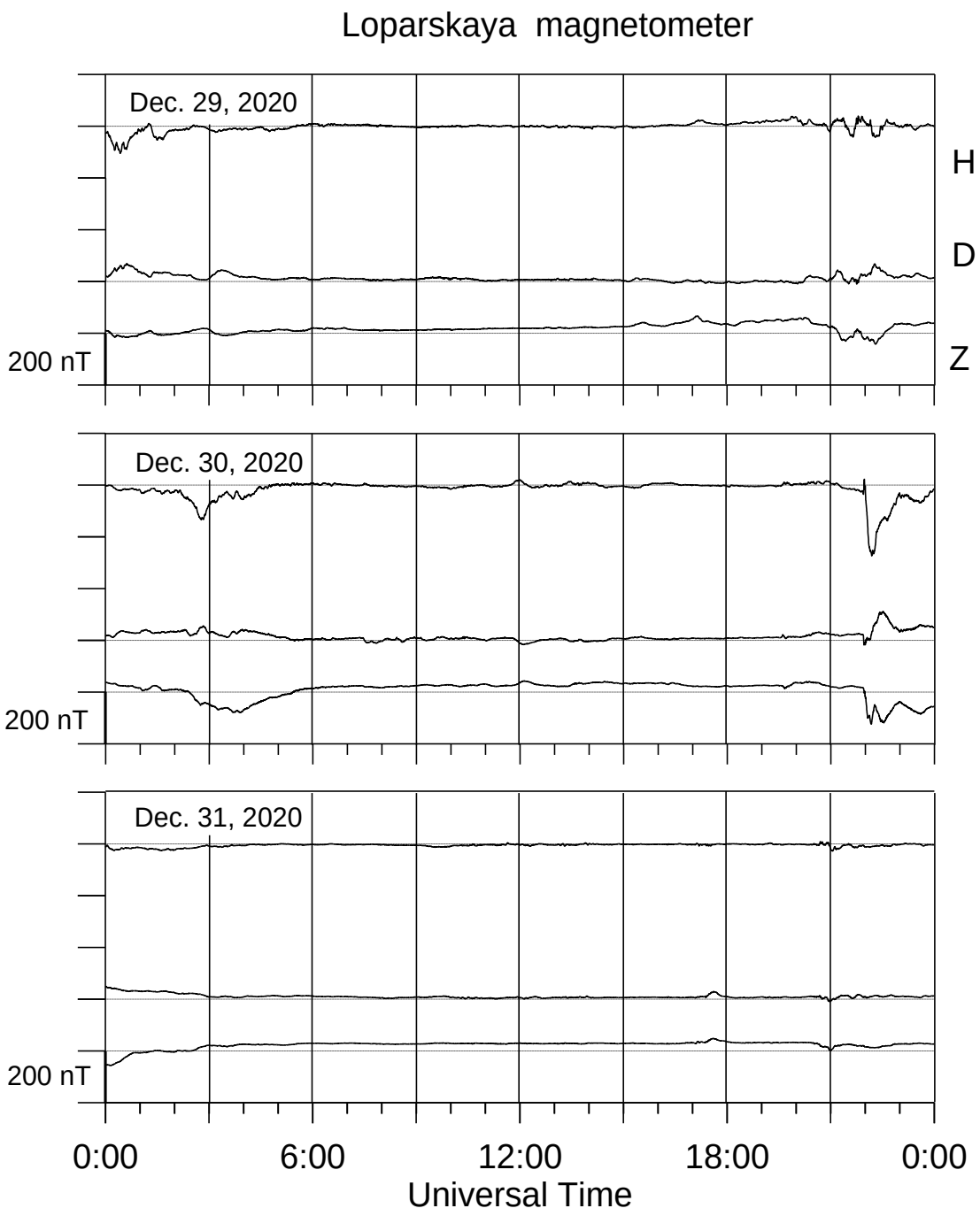

Loparskaya magnetometer
Dec. 09, 2020
H
D
Z
200 nT
Dec. 10, 2020
200 nT
Dec. 11, 2020
200 nT
Dec. 12, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time


Loparskaya magnetometer
Dec. 13, 2020
H
D
Z
200 nT
Dec. 14, 2020
200 nT
Dec. 15, 2020
200 nT
Dec. 16, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time


Loparskaya magnetometer
Dec. 17, 2020
H
D
Z
200 nT
Dec. 18, 2020
200 nT
Dec. 19, 2020
200 nT
Dec. 20, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time


Loparskaya magnetometer
Dec. 21, 2020
H
D
Z
600 nT
Dec. 22, 2020
200 nT
Dec. 23, 2020
200 nT
Dec. 24, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time


Loparskaya magnetometer
Dec. 25, 2020
H
D
Z
200 nT
Dec. 26, 2020
200 nT
Dec. 27, 2020
200 nT
Dec. 28, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time


Loparskaya magnetometer
Dec. 29, 2020
H
D
Z
200 nT
Dec. 30, 2020
200 nT
Dec. 31, 2020
200 nT
0:00
6:00
12:00
18:00
0:00
Universal Time