

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden storm commencements (ssc):

none

PULSATIONS

from normal recordings

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

4	0445	1205	B	45-150	7
9	0632	1620	B	45-150	8
10	0345	1220	B	45-150	8
12	0535	1255	B	45-150	8
14	0630	1255	B	45-150	8
16	0820	1825	C	45-150	7
18	0555	1245	C	45-150	6
19	0630	1610	B	45-150	8

pc 5:

7	0355	1630	B	150-360	20
8	0530	1435	B	150-360	15
17	0840	1545	C	150-360	15
20	0200	1000	C	150-360	12
24	0210	1645	B	150-360	15

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden storm commencements (ssc):

		X	Y	Z
Feb 04 02 39	SSC* B			
	39.7 ±.2	-1	+5	+2
	40.5 ±.2	+6	-4	-1
Feb 14 15 55	SSC* A			
	55.5 ±.2	-17	-22	-8
	56.7 ±.2	+48	+33	+13
Feb 18 01 30	SSC B			
	30.2 ±.2	+7	+4	+7
	32.2 ±.2	+5	-28	-9

PULSATATIONS

from normal recordings

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

3	0730	1830	C	45-150	6
7	0610	1400	C	45-150	7
14	1355	1850	C	45-150	10
17	0525	1915	B	45-150	8
28	0415	2355	C	45-150	7

pc 5:

1	0415	1600	C	150-360	15
5	0355	1550	B	150-360	30
6	0445	1400	C	150-360	15
15	0215	1640	B	150-360	18
18	0130	1525	B	150-360	40
23	0435	1420	C	150-360	10
25	0310	1630	C	150-360	12

SPECIAL GEOMAGNETIC EVENTS
 Normal magnetograms

Sudden storm commencements (ssc):

		X	Y	Z
Mar 29 16 01	SSC* A			
	01.7 ±.2	+1	-2	+1
	02.3 ±.2	-18	+3	+1

PULSATIONS
 from normal recordings

Day	Onset	End	Qual	Period	Amplitude nT
pc 4:					
5	0400	1225	C	45-150	8
6	0340	1530	C	45-150	8
14	0150	1200	B	45-150	8
15	0220	1400	B	45-150	7
19	1500	2235	B	45-150	9
pc 5:					
1	0525	1225	B	150-360	15
2	0145	1550	A	150-360	50
3	0305	1520	B	150-360	30
4	0300	1530	B	150-360	20
7	0405	1545	C	150-360	9
10	0655	1435	C	150-360	9
12	0425	1445	B	150-360	25
13	0555	1715	C	150-360	12
16	0210	1420	C	150-360	12
17	0240	1745	B	150-360	15
19	0610	1500	B	150-540	20
23	0235	1510	B	150-360	20
25	0445	1600	C	150-360	8
31	0400	1400	C	150-360	9

SPECIAL GEOMAGNETIC EVENTS
 Normal magnetograms

Sudden storm commencements (ssc):

		X	Y	Z
Apr 06 09 32	SSC* B			
	32.8 ±.2	-32	-12	-6
	33.7 ±.2	+53	+31	+11
Apr 19 21 09	SSC* C			
	09.2 ±.2	-2	+3	+1
	10.0 ±.2	+17	-2	0

PULSATIONS
 from normal recordings

Day	Onset	End	Qual	Period	Amplitude nT
pc 4:					
6	0320	1140	B	45-150	12
7	0110	1020	B	45-150	12
8	0005	1330	C	45-150	8
11	0605	1735	B	45-150	10
14	0155	1745	B	45-150	10
21	0155	1120	B	45-150	10
22	0145	1100	C	45-150	6
pc 5:					
2	0420	1515	C	150-360	15
3	0345	1545	B	150-360	15
4	0340	0900	C	150-360	12
12	0015	1200	B	150-360	18
13	0145	1245	B	150-360	20
16	0550	1530	B	150-360	15
18	0545	1345	B	150-360	18
20	0400	1700	B	150-360	25
24	0030	1645	C	150-360	10
26	0200	0955	C	150-360	10
28	0540	1345	C	150-360	10
30	0330	1615	B	150-360	35

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden storm commencements (ssc):

none

PULSATIONS
from normal recordings

Day	Onset	End	Qual	Period	Amplitude nT
pc 4:					
11	0300	1015	C	45-150	8
13	0115	1015	B	45-150	9
19	0125	0355	C	45-150	6
pc 5:					
1	0035	1135	B	150-360	25
2	0525	1610	B	150-360	35
3	0200	1445	B	150-360	25
4	0100	1250	C	150-360	15
10	0200	1400	C	150-360	15
15	0055	1710	B	150-360	20
16	1240	1610	C	150-360	15
17	0200	1515	B	150-360	35
18	0405	1500	C	150-360	15
19	0550	1510	C	150-360	14
21	0135	1620	B	150-360	18
23	0330	1135	C	150-360	10
29	0630	1400	B	150-360	25
30	0030	1520	B	150-360	20
31	0210	1355	C	150-360	15

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden storm commencements (ssc):

		X	Y	Z
Jun 04 20 44	SSC B			
	44.2 ±.2	-6	-8	-2
	45.2 ±.2	+123	-14	-9

PULSATATIONS

from normal recordings

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

4	0025	0745	C	45-150	6
7	0210	0830	C	45-150	6
15	0310	1040	C	45-150	8
20	0225	1145	C	45-150	6
21	0220	1210	B	45-150	6

pc 5:

1	0205	1300	B	150-360	15
2	0305	1235	B	150-360	15
5	0305	1415	A	150-360	60
14	0225	1605	B	150-360	12
15	0210	1520	B	150-360	15
17	0240	1325	C	150-360	15
19	0500	1412	C	150-360	10
23	0220	1405	B	150-360	25
24	0345	1620	B	150-360	18
25	0430	1630	B	150-360	12
26	0235	1500	B	150-360	15
30	0100	0815	C	150-360	12

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
Jul 11 08 50	SSC A			
	50.7 ±.2	+42	-36	-10
	51.2 ±.2	-107	+97	+26

PULSATIONS
from normal recordings

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

6	0500	1100	C	45-150	6
12	0135	1350	C	45-150	7
13	0040	1230	C	45-150	6
14	0003	1740	B	45-150	8
17	0005	0945	C	45-150	6
20	0815	1230	C	45-150	12
25	0340	1250	B	45-150	12
26	0340	1400	B	45-150	12

pc 5:

9	0410	1115	C	150-360	15
10	0540	1415	C	150-360	15
11	0505	1520	B	150-360	15
16	0345	1415	C	150-360	12
18	0400	1500	C	150-360	15
19	0630	1315	C	150-360	15
20	0230	0800	B	150-360	20
21	0310	1210	B	150-360	30
22	0255	1730	B	150-360	20
23	0300	1315	C	150-360	15
24	0200	1400	C	150-360	12
30	0300	1700	B	150-360	15
31	0205	1600	B	150-360	20

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

none

PULSATIONS

from normal recordings

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

2	0235	1105	A	45-150	15
3	0045	0345	C	45-150	6
10	0330	1200	B	45-150	15
11	0335	1355	B	45-150	12
12	0340	1145	C	45-150	7
14	0025	1055	C	45-150	6
16	0510	1045	C	45-150	10
18	0015	1220	B	45-150	6
24	0055	0355	C	45-150	9

pc 5:

1	0200	1300	B	150-360	24
6	0400	1610	A	150-360	45
7	0105	1440	C	150-360	12
8	0415	1510	C	150-360	10
9	0130	1610	B	150-360	20
13	0930	1625	C	150-360	14
15	0155	0605	B	150-360	22
20	0040	1015	B	150-360	15
22	0315	0950	C	150-360	15
25	0455	1620	C	150-360	10
28	0330	1330	B	150-360	15
29	0140	1800	B	150-360	22

SPECIAL GEOMAGNETIC EVENTS
 Normal magnetograms

Sudden commencements (SC):

				X	Y	Z
Sep 09	12 42	SSC A				
	42.0 ±.2			-63	+32	+7
	43.1 ±.2			+80	-47	-16
Sep 10	09 07	Si				
	07.7 ±.2			-54	-21	-7
	08.2 ±.2			+174	+72	+36
Sep 17	03 43	SSC A				
	43.0 ±.2			-4	+16	+6
	43.2 ±.2			+18	-47	-17
Sep 25	11 44	SSC B				
	44.3 ±.2			-6	-10	0
	45.9 ±.2			+15	+19	+3
Sep 26	12 35	SSC A				
	35.2 ±.2			-83	+29	-11
	35.8 ±.2			+192	-82	-20

PULSATIONS

from normal recordings

Day	Onset	End	Qual	Period	Amplitude nT
pc 4:					
3	0105	0750	C	45-150	8
16	0840	1745	C	45-150	7
pc 5:					
6	0355	1400	C	150-360	9
7	0615	1430	C	150-360	15
9	0355	1240	B	150-360	20
10	0655	1545	A	150-360	25
11	0340	0930	B	150-360	22
12	0325	1440	A	150-360	40
13	0330	1530	A	150-360	45
14	1030	1625	C	150-360	15
15	0335	1600	C	150-360	12
17	0310	1245	B	150-360	35
18	0245	1530	C	150-360	15
20	0205	1400	B	150-360	15
26	0100	1215	B	150-360	15
27	0605	1600	A	150-360	45
28	0200	1445	A	150-360	35
29	0320	1540	B	150-360	30

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

						X	Y	Z
Oct 10	07 36	SSC	B					
	36.0 ±.2				+10	-10	-1	
	36.5 ±.2				-28	+34	+6	
Oct 24	18 30	SSC	A					
	30.9 ±.2				-7	+7	+2	
	31.8 ±.2				+38	-24	-1	
Oct 30	10 00	SSC	B					
	00.8 ±.2				-7	-1	+1	
	02.5 ±.2				+7	+10	-1	
Oct 31	10 24	SSC	B					
	24.0 ±.2				+25	-18	-4	
	26.2 ±.2				-22	+11	-2	

PULSATATIONS

from normal recordings

Day	Onset	End	Qual	Period	Amplitude nT
pc 4:					
4	0645	1600	C	45-150	6
7	0245	2350	B	45-150	10
8	0510	1730	B	45-150	8
31	0625	1610	C	45-150	8
pc 5:					
1	0340	1525	B	150-360	25
2	0220	1350	B	150-360	20
5	0800	2310	B	150-360	25
6	0405	1555	B	150-360	20
9	0415	1110	C	150-360	12
12	0250	1400	B	150-360	15
25	0455	2045	A	150-360	25
26	0005	1140	B	150-360	18
27	0410	1440	C	150-360	12

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

			X	Y	Z
Nov 12 05 59	Si A				
	59.0 ±.2		-1	+4	+1
	59.8 ±.2		+11	-20	-6

PULSATIONS

from normal recordings

Day	Onset	End	Qual	Period	Amplitude nT
pc 4:					
17	0435	1200	B	45-150	8
pc 5:					
7	0435	1235	C	150-360	10
8	0155	1030	B	150-360	15
12	0555	1410	C	150-360	10
15	0435	1415	C	150-360	10
27	0455	1620	C	150-360	15
29	0110	1720	A	150-360	18

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

none

PULSATIONS
from normal recordings

Day	Onset	End	Qual	Period	Amplitude nT
pc 4:					
4	0305	0930	C	45-150	12
6	0135	0525	C	45-150	6
13	0500	1425	B	45-150	7
31	0355	1030	C	45-150	6
pc 5:					
1	0405	1200	C	150-360	10
10	0510	1025	C	150-360	15
19	0610	1505	C	150-360	9
28	1110	1950	C	150-360	8
29	0030	2015	B	150-360	20
30	0400	1600	C	150-360	8