

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

X Y Z

none.

PULSATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

1	0010	1050	C	45-150	7
3	0020	1715	B	45-150	10
4	0845	1810	B	45-150	10
5	0230	0835	C	45-150	7
6	0240	1330	B	45-150	8
8	0800	1930	B	45-150	10
10	0205	1800	B	45-150	8
12	0545	1815	C	45-150	6
23	0410	1255	B	45-150	8

pc 5:

1	1110	1630	C	150-360	15
2	0005	1545	B	150-360	20
13	0200	1650	B	150-360	15
14	0405	1500	B	150-360	15
22	0455	1600	B	150-360	15
29	0240	1035	C	150-360	10

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
07 Feb 17:05	SSC A			
	05.2 ±.2	-7	-9	-2
	06.3 ±.2	+8	+13	-3
15 Feb 13:17	SSC B			
	17.0 ±.2	-3	+5	+2
	17.7 ±.2	-10	-18	-6
20 Feb 03:20	SSC C			
	20.0 ±.2	+24	-13	-3
	21.5 ±.2	-23	-12	-9

PULSATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

10	0215	1345	C	45-150	10
11	0040	1400	B	45-150	12
22	0625	1610	C	45-150	8

pc 5:

6	0200	1525	C	150-360	9
8	0105	1455	B	150-360	35
15	1135	2205	B	150-360	15
16	0200	1600	B	150-360	20
19	0700	2200	B	150-360	25
20	0650	1630	B	150-360	20
21	0445	2200	B	150-360	15
23	0220	1525	B	150-360	15
24	0345	1455	B	150-360	15
28	0400	1800	B	150-360	15

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

none.

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

6	0410	1345	B	45-150	7
10	0420	1030	C	45-150	6
15	0015	1030	C	45-150	7
16	0400	1300	C	45-150	9
24	0600	1455	B	45-150	8

pc 5:

1	0305	1455	C	150-360	15
5	0245	1005	C	150-360	15
14	0120	1100	C	150-360	15
17	0205	0825	C	150-360	9
20	0435	1905	C	150-360	10
21	0800	1455	C	150-360	10
23	0005	1715	B	150-360	15
25	0410	1625	B	150-360	15
26	0345	1100	C	150-360	12
27	0005	1525	C	150-360	9
30	0325	1045	B	150-360	15
31	0355	1630	C	150-360	12

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

none.

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
-----	-------	-----	------	--------	-----------------

pc 4:

5	0005	0845	B	45-150	10
12	0605	1130	B	45-150	10
20	0015	1400	B	45-150	20

pc 5:

1	0400	1620	C	150-360	10
3	0440	1545	C	150-360	10
4	0145	1515	B	150-360	10
5	0855	2005	B	150-360	20
9	0515	1320	C	150-360	15
11	0230	1930	B	150-360	15
12	1130	1505	B	150-360	25
19	0315	1625	B	150-360	20
21	0300	1730	B	150-360	20
24	0100	1245	C	150-360	10

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
03 May 17:46	ssc* B			
	46.7 ±.2	+7	-1	+1
	47.5 ±.2	+6	-5	-2

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
-----	-------	-----	------	--------	-----------------

pc 4:

5	0350	0825	C	45-150	10
8	0355	0845	B	45-150	15
12	0420	1120	B	45-150	10
13	0320	1515	B	45-150	10
26	0005	1400	B	45-150	8
27	0005	1245	C	45-150	6

pc 5:

10	0045	1015	C	150-360	10
11	0435	1100	C	150-360	15
24	0005	1105	C	150-360	12

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
07 Jun 16:52	SSC B			
	52.2 ±.2	+2	+2	+1
	52.8 ±.2	-16	-21	-15

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
-----	-------	-----	------	--------	-----------------

pc 4:

1	0345	1155	C	45-150	8
9	0115	1600	B	45-150	15
12	0315	1040	B	45-150	9
19	0005	0930	B	45-150	9
20	0550	1615	B	45-150	10
22	0350	1150	C	45-150	6
23	0605	1600	B	45-150	8

pc 5:

8	1000	1820	B	150-360	25
11	0200	1545	B	150-360	20
14	0155	2000	B	150-360	15
15	0220	1600	C	150-360	8
16	0224	1530	C	150-360	9
21	0805	1245	C	150-360	15

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
14 Jul 14:31	ssc* C			
	31.3 ±.2	-10	+6	+1
	32.0 ±.2	-25	-21	-10

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
-----	-------	-----	------	--------	-----------------

pc 4:

4	0005	1105	C	45-150	6
4	2130	2355	C	45-150	8
8	0655	2115	C	45-150	6
11	0050	1200	C	45-150	6
17	0440	1100	B	45-150	7
19	0235	1115	C	45-150	6
25	0110	0900	C	45-150	6
26	0135	1805	B	45-150	6

pc 5:

2	0510	1540	C	150-360	15
3	0340	1400	B	150-360	15
12	0755	1800	C	150-360	8
14	0500	2345	B	150-360	15
15	0015	1640	B	150-360	15
28	0005	1610	B	150-360	20
31	0445	1645	B	150-360	15

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
19 Aug 06:57	SSC A			
	57.8 ±.2	-3	+3	+1
	58.3 ±.2	+9	-12	-3

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
-----	-------	-----	------	--------	-----------------

pc 4:

5	0430	1600	B	45-150	8
6	0300	2050	B	45-150	8
9	0115	1800	B	45-150	6
12	0010	1800	B	45-150	6
14	0135	2345	B	45-150	8
29	0400	1755	B	45-150	10
31	0430	1750	B	45-150	10

pc 5:

1	1045	1755	C	150-360	15
4	0340	1535	B	150-360	15
10	0110	1330	C	150-360	10
11	0130	1600	B	150-360	8
13	0605	1450	C	150-360	12
17	0900	1725	C	150-360	15
18	0155	1515	C	150-360	15
19	0610	1600	C	150-360	15
27	0200	1405	B	150-360	30
30	0410	1035	C	150-360	15

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
12 Sep 15:53	SSC A			
	53.8 ±.2	-26	+4	-8
	54.4 ±.2	-4	-22	-20

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
-----	-------	-----	------	--------	-----------------

pc 4:

1	0410	1135	C	45-150	7
5	0530	1650	C	45-150	6
6	0515	1200	C	45-150	6
19	0400	1330	B	45-150	15
20	0730	1600	B	45-150	10
21	0200	1200	B	45-150	12
22	0310	1350	C	45-150	8
25	0045	2115	B	45-150	15

pc 5:

4	0445	1500	C	150-360	15
11	0450	1550	C	150-360	10
12	0300	1555	B	150-360	25
13	0200	2355	A	150-360	45
14	0150	1730	B	150-360	15
15	0120	1525	B	150-360	18
16	0030	1400	B	150-360	20
18	0020	1645	B	150-360	15
24	0345	1045	C	150-360	15
26	0200	1205	C	150-360	15
27	0325	1440	B	150-360	15
30	0610	1605	B	150-360	15

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
13 Oct 12:12	SSC A			
	12.3 ±.2	-4	-3	-1
	12.7 ±.2	+4	+7	+3
17 Oct 19:10	ssc* B			
	10.8 ±.2	0	+2	+1
	11.5 ±.2	0	-5	-2
	12.0 ±.2	+9	+11	-4

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
-----	-------	-----	------	--------	-----------------

pc 4:

4	0300	1520	B	45-150	12
8	0155	1415	B	45-150	12
9	0405	1400	B	45-150	8
11	0555	1040	C	45-150	8
14	0410	1600	B	45-150	8
15	0400	1625	B	45-150	12
18	0340	1425	B	45-150	15
23	0410	1405	C	45-150	7

pc 5:

1	0210	1830	B	150-360	12
19	0505	1100	C	150-360	12
20	0210	1410	B	150-360	15
21	0255	1355	B	150-360	23
22	0435	1505	B	150-360	15
24	0325	1035	C	150-360	15
28	0400	0945	C	150-360	15

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

X Y Z

NONE.

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
-----	-------	-----	------	--------	-----------------

pc 4:

3	0115	1550	B	45-150	6
7	0355	1200	B	45-150	10
8	0210	2145	B	45-150	10
15	0115	1145	B	45-150	12
18	0005	1515	B	45-150	8
20	0300	1005	B	45-150	8
21	0355	1400	C	45-150	6

pc 5:

1	0705	1750	C	150-360	15
2	0140	1830	B	150-360	15
4	0600	1905	B	150-360	20
5	0125	1835	B	150-360	20
6	0245	1940	B	150-360	15
10	0220	1435	B	150-360	20
12	0115	1815	B	150-360	15
14	0100	0855	C	150-360	15
16	0330	1500	B	150-360	35
23	0035	1235	C	150-360	12

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
22 Dec	15:11			
				SSC A
	11.4 ±.2	-30	+1	+1
	12.5 ±.2	-7	-11	-23
23 Dec	11:14			
				SSC A
	14.7 ±.2	+6	-5	-2
	15.2 ±.2	-15	-41	-14
	15.7 ±.2	+120	+89	+24

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
pc 4:					
3	0125	0800	B	45-150	8
4	0105	1835	B	45-150	7
5	0300	1025	C	45-150	7
9	0155	1755	A	45-150	15
10	0335	1045	B	45-150	12
12	0350	0950	C	45-150	10
15	0405	1145	C	45-150	10
17	0435	0950	C	45-150	6
26	0355	1100	C	45-150	8
27	0355	2120	B	45-150	7
31	0145	1330	A	45-150	15
pc 5:					
2	0355	1815	B	150-360	20
6	0615	1830	B	150-360	15
7	0155	1345	A	150-360	25
8	0120	1550	A	150-360	30
13	0235	1430	B	150-360	20
22	0600	2330	B	150-360	15
23	0815	2000	B	150-360	15
24	0245	1200	B	150-360	15
29	0245	1620	B	150-360	20
30	0150	1550	A	150-360	35