

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

X Y Z

none.

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

3	0715	1130	B	45-150	10
5	0300	1810	B	45-150	8
8	0300	1255	B	45-150	10
12	0245	1835	B	45-150	10
13	0335	1820	B	45-150	10
14	0410	1405	C	45-150	6
19	0200	1530	B	45-150	8
22	0400	1600	B	45-150	8
23	0345	1440	B	45-150	15
24	0005	1200	C	45-150	8
25	0200	2130	B	45-150	10
26	0330	1200	B	45-150	10

pc 5:

1	0645	1800	B	150-360	15
2	0645	1630	B	150-360	15
6	0130	2005	A	150-360	25
7	0300	1450	B	150-360	20
20	0010	1030	B	150-360	15
21	0405	1555	B	150-360	25

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

X Y Z

NONE.

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

9	0120	1115	B	45-150	12
12	0235	1800	B	45-150	12
16	0520	1200	B	45-150	15
17	0412	1200	B	45-150	18
18	0400	1610	B	45-150	18
19	0230	1545	B	45-150	12
20	0545	1430	C	45-150	10

pc 5:

4	0200	1255	B	150-360	15
5	0345	1620	B	150-360	18
13	0010	0805	C	150-360	10
14	0525	1030	B	150-360	18

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
14 Mar 17:14	SSC A			
	14.3 ±.2	-12	-7	-4
	15.3 ±.2	+36	+10	+6

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

8	0315	1400	B	45-150	10
12	0235	1710	B	45-150	12
14	0035	2000	B	45-150	12
15	0005	1710	B	45-150	20
16	0230	1200	C	45-150	8
17	0400	1600	B	45-150	15
18	0340	1635	C	45-150	9
19	0430	1700	C	45-150	8
21	0650	1910	C	45-150	8
22	0600	1200	C	45-150	9
23	0255	1130	B	45-150	15
24	0345	2005	C	45-150	8
25	0225	1545	B	45-150	15
28	0315	1255	B	45-150	8
29	0240	1715	B	45-150	15
30	0005	1615	B	45-150	15

pc 5:

3	0400	1400	B	150-360	15
5	0200	1235	B	150-360	15
6	0420	1620	B	150-360	12
7	0450	1440	B	150-360	50
11	1445	1950	C	150-360	12
27	0615	1625	B	150-360	15

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

NONE.

PULSATATIONS

from normal recordings:

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

pc 4:

3	0430	1645	C	45-150	12
9	0425	1600	C	45-150	8
14	0230	1200	C	45-150	10
15	0245	1520	C	45-150	8
17	0225	1500	C	45-150	12
24	0255	1355	B	45-150	12
26	0035	1530	B	45-150	8
30	0255	1715	B	45-150	10

pc 5:

13	0305	1340	B	150-360	18
16	0600	1550	B	150-360	12
20	0120	1245	C	150-360	12
22	0450	1520	B	150-360	15
25	0250	1600	B	150-360	12
29	0025	1515	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	0545	1425	C	45-150	10
9	0420	1315	B	45-150	15
14	0410	1450	C	45-150	8
16	0200	1205	C	45-150	9
17	0400	1315	C	45-150	10
18	0300	1400	C	45-150	8
19	0435	1200	C	45-150	8
27	0115	1130	C	45-150	8
30	0500	1745	B	45-150	10
31	0400	1600	B	45-150	8

pc 5:

7	0640	1330	C	150-360	15
10	0130	1000	B	150-360	25
21	0400	1555	B	150-360	20
22	0235	1640	B	150-360	18
23	0355	1340	B	150-360	12
24	0545	1600	C	150-360	12
25	0515	1430	C	150-360	10
28	0320	1415	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:

1	0840	2035	B	45-150	10
3	0355	1130	B	45-150	8
14	0215	1800	B	45-150	10
15	0305	1400	B	45-150	12
18	0205	1545	B	45-150	12
19	0235	1520	B	45-150	15
21	0130	1845	B	45-150	8
23	0305	1040	C	45-150	6

pc 5:

5	0300	1315	C	150-360	10
6	0250	1600	B	150-360	30
10	0400	1635	C	150-360	8
13	0040	1715	B	150-360	15
16	0150	1545	B	150-360	15
17	0340	1600	B	150-360	12
20	0345	1400	C	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:

4	0245	1130	B	45-150	10
6	0005	1140	C	45-150	8
7	0355	1540	B	45-150	10
11	0230	1330	C	45-150	8
12	0525	1630	B	45-150	12
13	0145	1235	B	45-150	15
14	0325	1000	C	45-150	12
16	0235	1600	B	45-150	10
25	0600	1335	C	45-150	8
29	0030	1115	B	45-150	12
30	0110	1840	B	45-150	10

pc 5:

8	0300	1500	B	150-360	15
9	0400	1440	B	150-360	20
10	0245	1600	B	150-360	20
15	0205	1830	B	150-360	30
20	0455	1730	B	150-360	30
21	0150	1200	C	150-360	8
22	0600	1320	C	150-360	8

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
16 Aug 11:56	SSC A			
	56.7 ±.2	+1	+6	+2
	58.0 ±.2	-26	-4	-3

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

1	0200	1845	C	45-150	7
3	0225	1400	B	45-150	15
4	0210	1200	B	45-150	20
7	0140	1445	B	45-150	12
8	0200	1000	C	45-150	8
9	0330	1200	B	45-150	8
12	0330	1400	B	45-150	15
17	0100	0615	C	45-150	8
25	0440	1400	B	45-150	10
28	0350	1330	C	45-150	6

pc 5:

2	1025	2050	B	150-360	18
5	0400	1605	B	150-360	18
6	0215	1350	B	150-360	15
10	0548	1545	B	150-360	20
11	0125	1615	B	150-360	18
24	0320	1800	B	150-360	20
29	0020	1230	B	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:

6	0240	1720	B	45-150	15
12	0200	1145	B	45-150	15
15	0300	1030	C	45-150	6
21	0515	0925	C	45-150	12
22	0310	0950	C	45-150	7

pc 5:

1	0335	1515	B	150-360	18
2	0400	1735	B	150-360	40
3	0445	1245	B	150-360	30
4	0155	1400	B	150-360	30
5	0105	1630	B	150-360	15
19	0605	1400	C	150-360	8
20	0315	1640	A	150-360	30
23	0215	2200	B	150-360	12
24	0115	1715	B	150-360	10
27	0410	1250	B	150-360	18
28	0315	1305	B	150-360	25
29	0305	1200	B	150-360	35
30	0150	1600	B	150-360	25

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:

2	0335	1245	B	45-150	15
3	0430	1350	B	45-150	15
16	0630	1515	B	45-150	12
18	0200	1400	B	45-150	18
19	0415	1220	C	45-150	10
31	0445	1115	B	45-150	10

pc 5:

1	0425	1605	B	150-360	20
4	0425	1620	B	150-360	20
5	0235	1405	B	150-360	15
13	0610	1420	B	150-360	18
14	0435	1535	B	150-360	15
15	0245	1420	B	150-360	15
17	0130	1605	B	150-360	25
23	0400	1530	C	150-360	12
25	0335	1130	B	150-360	15
26	0320	1430	B	150-360	40
27	0405	1312	B	150-360	18
28	0800	1400	B	150-360	15
29	0415	1225	B	150-360	25
30	0420	1345	B	150-360	30

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
09 Nov 06:43	SSC A			
	43.2 ±.2	-3	+1	0
	43.5 ±.2	-6	-8	-4

PULSATATIONS

from normal recordings:

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

pc 4:

1	0630	1455	B	45-150	10
14	0415	1400	B	45-150	10
15	0400	1920	B	45-150	10
23	0445	1205	C	45-150	8
27	0400	1610	B	45-150	12
28	0405	1655	B	45-150	8

pc 5:

11	0210	1645	B	150-360	12
12	0445	1800	B	150-360	20
13	0115	1505	B	150-360	20
22	0800	1600	C	150-360	8
25	0212	1420	B	150-360	20
26	0435	1550	B	150-360	25

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:

2	0310	1600	C	45-150	8
8	0200	1030	B	45-150	15
9	0240	1515	B	45-150	12
10	0215	1600	B	45-150	20
11	0315	1600	B	45-150	10
12	0320	1905	B	45-150	10
13	0305	1530	B	45-150	8
14	0500	1820	B	45-150	8
15	0200	1200	B	45-150	8
18	0215	1400	C	45-150	6
25	0545	1600	C	45-150	10
27	0535	1400	B	45-150	12

pc 5:

22	0305	1550	B	150-360	25
23	0035	1350	B	150-360	20
24	0205	1310	B	150-360	15
26	0305	1430	B	150-360	25
31	0920	1555	C	150-360	12