MAGNETIC STORM SUDDEN COMMENCEMENTS AND SOLAR FLARE EFFECTS (PRELIMINARY REPORT ON RAPID MAGNETIC VARIATIONS)

November 2003

Storm Sudden Commencements (SSC)

Day	Time	Quality: Station Group*
04	0625	A: VAL* NAG* MMB* KAK* HTY* KNY* GUI* GNA CNB
		B: NUR NGK* BDV* CLF*
		C: EBR
		S: HRB
15	0550	A: GUI*
		C: NGK VAL CLF MMB* EBR KAK HTY KNY
20	0803	A: VAL CLF* MMB* KAK* HTY* KNY* GUI GNA CNB
		B: SOD* NUR NGK* BDV* GCK*
		C: HRB NAG* EBR*

Solar Flare Effects (sfe)

Day	Begin-End	Station(s)
03	0946-1050	NGK+ BDV+ HTY+
03	1440-1449	NGK+
05	1049-1104	BDV+
08	1635-1641	NAG
13	0906-0922	HTY+
24	1238-1305	GUI
29	0637-0651	NAG

<u>REPORTING OBSERVATORIES</u> (up to the 5th of January 2004):
SOD NUR NGK VAL BDV CLF HRB NAG GCK MMB EBR KAK HTY KNY GUI GNA CNB

Three-letter codes identify each observatory. Reporting stations have been grouped by the character of the observed event. The letter A means very remarkable; B means fair, but unmistakable; C means very poor, doubtful; and - means no quality figure given. The * means that the SSC, at least in one component, was preceded by a small reversed impulse. SSCs are given only when five or more stations report the event. SFEs include all reports. If an SFE is confirmed by solar or ionospheric events, the name of the station is identified with a plus sign (+).

Note that we have included data of the Antartic Station LIVINGSTONE (62° 39' 44" S, 60°23' 41" W) -- Luis F.

Criterion on Provisional SSC data

From December 2002, we are giving as provisional SSC only the SSC reported by more than 4 observatories. This is a change with respect to the previous criterion according to which we used to give the SSC reported by more than 5 observatories. The change, pending IAGA confirmation, has been provisionally taken because of the decreasing number of reporting observatories in order to keep the homogeneity of the data. The idea is to keep the same minimum percentage of the observatories reporting an SSC, relative to the total number of reporting observatories, to be considered as a probable SSC.