

Highlights of Solar and Geomagnetic Activity
11 - 17 November 1985

Solar activity was at a very low level through the period. There were four spotted regions visible during the week, all were small and relatively quiet. The largest event of the week was a C1/SN flare on 13 November from Region 4703 (S08, L=034, class/area DAO/230 on 15 Nov). Region 4703 appeared on 13 November and grew rapidly, reaching its largest area on the 15th, the same day the 10cm reached its maximum.

There were no significant proton enhancements at satellite altitudes during the period.

The geomagnetic activity ranged from quiet to active. The active period on 13 November has been attributed to a weak coronal hole which crossed central meridian of the sun on 10 November.

Forecast of Solar and Geomagnetic Activity
20 November - 16 December 1985

Solar activity is expected to continue at a very low level. Current disk regions appear to be declining and no significant regions are due to return.

The geomagnetic field is expected to be generally unsettled to active for most of the period. The most active periods with conditions reaching minor storm levels, are expected around 29 November and 10 December. There is a recurrence period of quiet conditions expected between 22 and 28 November.

<u>DAILY SOLAR & GEOMAGNETIC INDICES</u>											
OTT	2800	SSP	XRAY	FREDERICKSBURG	ANCHORAGE	A	K	-	INDICES		
DATE	MHZ	NBR	BGD	A	K	-	INDICES	A	K	-	INDICES
11/11	76	17	B0.5	10 3-2-3-3-2-2-2-2	16 3-2-4-4-3-3-3-2						
11/12	76	31	B0.4	5 1-2-1-1-1-1-2-2	* *-*-*-*-*-*-*						
11/13	76	44	B0.5	22 2-2-3-2-4-3-5-5	* *-*-*-*-*-*-*						
11/14	79	50	B0.6	14 4-3-2-2-2-2-3-4	* *-*-*-*-*-*						
11/15	86	50	B1.3	11 3-3-1-3-3-2-2-3	* *-*-*-*-*-*						
11/16	81	36	B0.7	9 3-3-2-2-2-2-2-2	* *-*-*-*-*-*						
11/17	79	33	B0.5	8 0-2-2-2-2-3-3-2	* *-*-*-*-*-*						

Note: All '*'d values are missing due to equipment outage.

HFUS3 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 323

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 19 NOV 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/2100 TO 19/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 4703 (S09W28) HAS DECLINED TO A CSO TYPE SPOT GROUP AND REGION 4704 (N01W01) HAS DECLINED TO AN AXX TYPE SPOT GROUP. REGION 4703 RETAINS A BETA MAGNETIC CONFIGURATION.

REGION 4702 (N08W28) HAS AGAIN LOST ITS SPOTS. NO NEW REGIONS WERE NUMBERED TODAY. THE REST OF THE DISK AND LIMBS WERE QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW FOR THE NEXT THREE DAYS. THE CHANCES FOR C-LEVEL X-RAY ACTIVITY ARE LOW. NO REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 18/2100Z TO 19/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT MINOR STORM LEVELS EARLY IN THE PERIOD AND QUIET TO UNSETTLED LATER IN THE PERIOD. THE GRADUAL COMMENCEMENT OF MINOR STORM CONDITIONS BEGAN PRIOR TO 2100UT 18 NOVEMBER AND HAD ENDED BY 0900UT 19 NOVEMBER. QUIET TO UNSETTLED LEVELS HAVE PREDOMINATED SINCE. THE SOURCE OF THE MINOR STORM CONDITIONS IS NOT DEFINITE BUT TWO SMALL DISAPPEARING FILAMENTS FROM REGION 4702 ON 15-16 NOVEMBER ARE SUSPECTED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT UNSETTLED LEVELS FOR THE NEXT 48 HOURS AND QUIET FOR THE SUBSEQUENT 24 HOURS.

III. EVENT PROBABILITIES 20 NOV-22 NOV

CLASS M 02/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 NOV 078

PREDICTED 20 NOV-22 NOV 077/075/073

90 DAY MEAN 19 NOV 073

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 NOV 012/018

ESTIMATED AFR/AP 19 NOV 018/020

PREDICTED AFR/AP 20 NOV-22 NOV 008/015-008/015-005/015

SOLTERWARN

BT

HXUS BOU 192200

PREDM 00220 00121 00122

PREDX 00120 00121 00122

PREDP 00120 00121 00122

PCAAFT 00120

TENCM 07720 07521 07322

AFRED 00820 00821 00522

AFAPP 01520 01521 01522

BT