

Highlights of Solar and Geomagnetic Activity
28 October - 3 November 1985

Solar activity was very low. A few small flares were observed on 28 and 29 Oct from the active complex of Regions 4698 (N05, L=028, class/area, CA0/330 on 17 Oct) and 4699 (N05, L=016, class/area EA1/60 on 23 Oct). The largest event was a C1.4 at 28/1630UT. This event was accompanied by an eruptive prominence located slightly south of exiting region 4699 which was observed out to 0.32 solar radii. By 30 Oct these regions had crossed the west limb and the sun was again spotless and quiet. Solar indices continued to fall through the week. At weeks end, the disk was nearly featureless.

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

The geomagnetic field was quiet to unsettled early in the week and became active with storm level conditions at high latitudes the last two days of the period. Although this activity was expected based on recurrence (active conditions were observed during this period in past solar rotations), no source, e.g., coronal hole or filament disappearance, could be assigned to this disturbance.

Forecast of Solar and Geomagnetic Activity
6 November - 2 December 1985

Solar activity is expected to be very low for the next 27 days.

The geomagnetic field is expected to be generally unsettled to active for the next 27 days. However, enhanced activity up to minor storm levels is expected 28-30 November.

DAILY SOLAR & GEOMAGNETIC INDICES

OTT 2800	SSP DATE MHZ	XRAY NBR	FREDERICKSBURG BGD	A K - INDICES	ANCHORAGE A K - INDICES
10/28	78	22	B0.8	4 3-1-1-2-1-0-0-1	5 2-2-1-2-1-2-1-1
10/29	75	11	B0.7	12 4-3-3-4-2-1-0-1	20 2-3-3-6-4-2-1-2
10/30	72	0	B0.1	4 1-1-1-1-2-1-1-1	4 2-2-2-2-1-1-0-1
10/31	71	0	B0.0	4 2-2-0-1-2-1-1-1	6 1-2-1-1-2-3-2-1
11/ 1	70	0	B0.0	11 2-3-2-3-2-2-3-3	26 2-2-1-5-5-6-3-1
11/ 2	70	0	B0.0	28 1-3-4-2-4-3-5-6	43 1-2-4-5-7-5-5-4
11/ 3	69	0	B0.1	23 5-5-2-4-3-3-2-3	28 4-4-3-6-4-4-2-3

HFUSS BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 310

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 06 NOV 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/2100Z
TO 06/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4700 (N14W42)
SLOWED ITS DEVELOPMENT. IT SUPPORTED ARCHED FILAMENT SYSTEMS
AND PERIODIC POINT BRIGHTENINGS THROUGHOUT THE PERIOD. HOWEVER,
IT PRODUCED ONLY OPTICAL ACTIVITY WITH NO OTHER PARAMETER
ASSOCIATIONS. NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
VERY LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 05/2100Z TO 06/2100Z:
THE GEOMAGNETIC FIELD WAS ACTIVE TO UNSETTLED. BRIEF MINOR
STORM CONDITIONS OCCURRED EARLY IN THE PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE ACTIVE.

III. EVENT PROBABILITIES 07 NOV-09 NOV

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 NOV 071

PREDICTED 07 NOV-09 NOV 072/071/070

90 DAY MEAN 06 NOV 071

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 NOV 009/017

ESTIMATED AFR/AP 06 NOV 013/018

PREDICTED AFR/AP 07 NOV-09 NOV 015/020-014/015-015/025

SOLTERWARN

BT

HXUS BOU 062200

PREDM 00107 00108 00109

PREDX 00107 00108 00109

PREDP 00107 00108 00109

PCRAFT 00107

TENCM 07207 07108 07009

AFRED 01507 01408 01509

AFAPF 02007 01508 02509

BT