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HFUS 1 BOU 041300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 308A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 04 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
03/1200Z TO 04/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST
24 HOURS WITH ONLY A FEW MINOR C-CLASS X-RAY EVENTS OCCURRING.
REGION 3966 (N06W73) CONTINUES TO SLOWLY DECAY AS IT
APPROACHES WEST LIMB PASSAGE. A FEW SUBFLARES, AN ACTIVE DARK
FILAMENT, AND SOME LIMB SURGING HAVE BEEN OBSERVED IN THIS
SIMPLE BIPOLAR REGION. REGION 3974 (N05E47) IS GROWING
ESPECIALLY IN MAGNETIC COMPLEXITY, AND HAS PRODUCED A C-CLASS
FLARE DURING THIS PERIOD. REGION 3975 (S10W28), WHICH EMERGED
ON THE DISK YESTERDAY, IS EXHIBITING A STRONG ARCH FILAMENT
SYSTEM AND SLOW GROWTH BUT DOES NOT YET APPEAR ERUPTIVE. NEW
FLUX IS EMERGING IN REGION 3971 (S24E02) WHICH HAS REGAINED
SPOTS. OTHER REGIONS ARE QUIETLY DECLINING AT THIS TIME. A NEW
SPOT, ACCOMPANIED BY MINOR SURGING, HAS ROTATED OVER THE EAST
LIMB NEAR NE15. ACTIVE SURGING ON THE WEST LIMB IS ASSOCIATED
WITH THE DEPARTURE OF REGIONS 3960 (N09W92) AND 3961 (S08W86).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW. NO REGIONS PRESENTLY ON THE DISK APPEAR CAPABLE OF
SIGNIFICANT ACTIVITY AND THERE ARE NO REGIONS OF NOTE DUE TO
RETURN DURING THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN MOSTLY QUIET FOR THE PAST 24 HOURS, EXCEPT FOR A PERIOD OF
UNSETTLED TO ACTIVE CONDITIONS BETWEEN 12-18Z ON 03 NOVEMBER.
ISEE-3 SPACECRAFT DATA SHOW A STEADY, AVERAGE SOLAR WIND WHICH
IS STILL COMING FROM A PLUS-POLARITY SECTOR. HOWEVER, THE 3 KHZ
PLASMA NOISE CHANNEL HAS BEEN EXTREMELY ACTIVE SINCE
APPROXIMATELY 0540Z INDICATING THE NEARBY PRESENCE OF A STRONG
INTERPLANETARY SHOCK BOUNDARY. THE PASSAGE OF THIS BOUNDARY
SHOULD BRING A RETURN TO ACTIVE GEOMAGNETIC CONDITIONS WHICH
ARE THEN EXPECTED TO PERSIST THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 05 NOV-07 NOV.

CLASS M 10/05/05
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX
OBSERVED 03 NOV 150
ESTIMATED 04 NOV 140
PREDICTED 05 NOV-07 NOV 135/130/130
90 DAY MEAN 03 NOV 166

V. GEOMAGNETIC A INDICES
OBSERVED AFR 02 NOV 025 AP 03 NOV 024
ESTIMATED AFR 03 NOV 016 AFR/AP 04 NOV 017/015
PREDICTED AFR/AP 05 NOV-07 NOV 025/015-025/025-019/015

SOLTERWARN
BT

BED
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RENSPUNCSUMS042000 FOR TAPE

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 308B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 04 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
04/1200Z TO 04/2100Z: SOLAR ACTIVITY CONTINUED LOW DURING THIS
PERIOD. ONLY SMALL "C" CLASS EVENTS HAVE BEEN OBSERVED THE
LARGEST WAS A C4/1B FROM REGION 3969 (S11W74). REGION 3974
(N05E42) IS THE ONLY MAGNETICALLY COMPLEX REGION ON THE VISIBLE
DISK, A "BETA GAMMA, HOWEVER IT REMAINS SMALL IN SIZE. NEW
REGION TODAY IS 3976 (N13E73) A SIMPLE "B" TYPE GROUP. THE REST
OF THE REGIONS ARE STABLE OR LITTLE CHANGED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE LOW DURING THIS FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED THIS PERIOD. A LARGE PORTION OF THE NORTHERN
FILAMENT, (N37E33) TO (N25E01), DISAPPEARED BETWEEN 1430UT AND
1730UT. PORTIONS OF THE FILAMENT AND IT'S CHANNEL ARE STILL
VISIBLE THEREFORE ONLY A MINOR INCREASE IN THE "A" VALUES ARE
EXPECTED ON 08 NOV, HOWEVER IF A MAJOR RESTRUCTURING OF THE
NEUTRAL LINE OCCURS THEN A LARGE INCREASE IN THE FORECAST "A"
VALUE FOR 07 OR 08 NOV WILL BE PROBABLE.

III. EVENT PROBABILITIES 05 NOV-07 NOV

CLASS M 10/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 NOV 143

PREDICTED 05 NOV-07 NOV 140/135/135

90 DAY MEAN 04 NOV 166

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 NOV 014/024

ESTIMATED AFR/AP 04 NOV 010/012

PREDICTED AFR/AP 05 NOV-07 NOV 025/015-025/025-019/025

SOLTERWARN

BT