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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 BIPOLE 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, ACCCOMPANIED 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

RUN BED IT FILE RRT X TO EDIT

RENSPENBUM 04200 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 UNSETLED 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

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