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HFUS 3 BOU 29 14 04

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 303A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 29 OCT 1980

IA. SOLAR ACTIVITY WAS AT MODERATE LEVELS DURING THE PAST 24
HOURS. REGION 2744 (S18W87) PRODUCED A PAIR OF M1 EVENTS:

(1) IN OPTICAL FLARE AT 28/2223 UT AND (2) SN OPTICAL FLARE
AT 29/0620UT. OTHER REGIONS PRODUCING MINOR FLARES INCLUDED 2761
(S44W03) AND 2762 (N08E22). FIVE NEW SIMPLE REGIONS WERE ASSIGNED
NUMBERS ON 28 OCT.

IB. SOLAR ACTIVITY IS EXPECTED TO BE AT LOW LEVELS. THERE IS
A FAIR CHANCE OF AN M-CLASS EVENT, HOWEVER, MOST LIKELY FROM
REGION 2761 OR 2762. REGION 2744 WILL ROTATE OFF THE DISK EARLY
ON 30 OCT.

II. GEOMAGNETIC ACTIVITY HAS BEEN QUIET AND IS FORECAST TO RE-
MAIN SO THROUGH THE NEXT THREE DAYS. THE HIGHEST K-INDEX OBSERVED
AT BOULDER DURING THE LAST 75 HOURS HAS BEEN A TWO (2).

III. EVENT PROBABILITIES: 30 OCT - 01 NOV

CLASS M 40/40/40

CLASS X 0/01/01

PROTON 0/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 28 OCT 177

ESTIMATED 29 OCT 179

PREDICTED 30 OCT - 01 NOV 181/183/185

90 DAY MEAN 28 OCT 185

V. GEOMAGNETIC A INDICES

OBSERVED AFR 27 OCT 02 AP 28 OCT 04

ESTIMATED AFR 28 OCT 01 AFR/AP 29 OCT 04/06

PREDICTED AFR/AP 30 OCT - 01 NOV 06/07 06/07 06/07

SOLIERWARN

BT

HFUS 1 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 303 B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200UT 29 OCT 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. TWO CLASS M1 X-RAY EVENTS HAVE EMANATED FROM FLARES IN REGION 2744 AT 28/2223 UT AND 29/0620 UT. ADDITIONALLY, TWO CLASS C9 X-RAY EVENTS OCCURRED AT 29/1137 UT (REGION 2761) AND AT 1527 UT (REGION 2765). CULGOORA REPORTED A WEAK MOVING TYPE IV EVENT FROM 28/2350 UT TO 29/0122 UT NEAR THE EQUATORIAL PLANE, VISIBLE TO 4R AT FINAL OBSERVATION. THEY ALSO REPORTED A STRONG TYPE I NOISE STORM WITH CONTINUUM OVER THE NE LIMB. THE SMM X-RAY SENSOR, BEGINNING AT 0600 UT, OBSERVED STRONG SOFT X-RAY EMISSION TO 0.3 R CENTERED NEAR NE 09. MAUNA LOA REPORTED, AT 1745 UT, POST-FLARE LOOPS TO 0.3 R AT THIS POSITION. ALL THESE RESPONSES INDICATE THE OCCURENCE OF A MAJOR FLARE BEYOND EAST LIMB NEAR THE BEGINNING OF THIS UT DAY.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE. OLD REGIONS 2724 AND 2717, WHICH HAD PRODUCED ENERGETIC FLARES LAST TRANSIT, ARE DUE BACK ON THE NE LIMB DURING THE NEXT 24-48 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IS EXPECTED TO REMAIN SO DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 30 OCT - 01 NOV

CLASS M 40/50/60

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 29 OCT 189

PREDICTED 30 OCT - 01 NOV 192/194/201

90 DAY MEAN 29 OCT 186

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 OCT 02/04

ESTIMATED AFR/AP 29 OCT 02/06

PREDICTED AFR/AP 30 OCT - 01 NOV 06/07 06/07 06/07

SOLTERWARN

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