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HFUS 1 BOU 061300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 340A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 06 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

05/1200Z TO 06/1200Z: SOLAR ACTIVITY WAS AT LOW LEVELS DURING THIS PERIOD. THE RATE AT WHICH C-CLASS SUBFLARES HAVE BEEN OCCURRING IS LOWER THAN IT HAD BEEN THE LAST TWO DAYS. ALL OF THE 16 SPOTTED REGIONS ON THE SUN NOW ARE FAIRLY SIMPLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. NO REGION OF SIGNIFICANCE IS EXPECTED TO RETURN AT THE EAST LIMB FOR THE NEXT FEW DAYS. ANY MAJOR FLARES DURING THE NEXT 72 HOURS ARE LIKELY TO OCCUR IN REGION 3492 (N19E31) OR 3487 (N06W10).

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. ACTIVE CONDITIONS ARE FORECAST FOR 08 AND 09 DEC, BASED UPON A SOLAR SECTOR BOUNDARY PASSAGE AND UPON A FORECAST OF RECURRENCE.

III. EVENT PROBABILITIES 07 DEC-09 DEC

CLASS M 75/75/75

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 DEC 268

ESTIMATED 06 DEC 276

PREDICTED 07 DEC-09 DEC 280/275/265

90 DAY MEAN 05 DEC 218

V. GEOMAGNETIC A INDICES

OBSERVED AFR 04 DEC 011 AP 05 DEC 009

ESTIMATED AFR 05 DEC 010 AFR/AP 06 DEC 008/010

PREDICTED AFR/AP 07 DEC-09 DEC 012/012-015/014-015/014

SOLTERWARN

BT

NNNNZS

1147

HFXUS 3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 340B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 06 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/1200Z TO 06/2100Z: SOLAR ACTIVITY HAS BEEN LOW. FREQUENT SUBFLARES CONTINUE TO BE OBSERVED FROM VARIOUS SOURCES. NEW REGION 3504 (S15E74) IS ROTATING INTO VIEW WITH ACTIVE SURGING. THE LEADER SPOT OF THIS GROUP IS LARGE. A BRIGHT PROMINENCE AT SE04 GREW BRIGHT THEN ERUPTED AT 1851UT IN COINCIDENCE WITH A C9 X-RAY FLARE AT 06/1901UT. REGION 3496 (N08E26) CONTINUES ITS GROWTH TREND BOTH IN AREA AND SPOT COUNT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BECOME MODERATE. WITH REGIONS CONTINUING TO ROTATE OVER THE EAST LIMB AND CONTINUED EVOLUTION IN REGION 3496, CLASS M FLARES SHOULD BEGIN SOON AND CONTINUE THROUGHOUT THE COMING WEEK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET. THERE HAS BEEN A SLIGHT ENHANCEMENT IN ENERGETIC PARTICLE FLUXES BEGINNING AT APPROXIMATELY 05/2000UT. A PEAK FLUX OF 5 P/CM² S STER AT ENERGIES GREATER THAN 10 MEV WAS OBSERVED AT ABOUT 06/1400UT. FLUX VALUES ARE SLOWLY DECLINING AT THIS TIME. THE SOURCE EVENT OF THESE PARTICLES IS UNKNOWN. THE GEOMAGNETIC FIELD SHOULD BE UNSETTLED TO ACTIVE FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 07 DEC-09 DEC

CLASS M 80/80/80

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 DEC 270

PREDICTED 07 DEC-09 DEC 270/268/273

90 DAY MEAN 06 DEC 218

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 DEC 009/009

ESTIMATED AFR/AP 06 DEC 008/010

PREDICTED AFR/AP 07 DEC-09 DEC 012/012-015/014-015/014

SOLTERWARN

BT

HFXUS BOU 062200

PREDM 08007 08008 08009

PREDX 01007 01008 01009

PREDP 00107 00108 00109

PCAFAT 00107

TENCM 27007 26808 27309

AFRED 01207 01508 01509

AFAPF 01207 01408 01409

BT