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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 345A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 11 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/1200Z TO 11/1200Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 3492 (N19W37) IS GENERALLY STABLE HOWEVER IT CONTINUES TO BE MAGNETICALLY COMPLEX, THIS REGION PRODUCED THE LARGEST EVENT THIS PERIOD A C5/SN AT 10/2156UT. SEVERAL SMALL C-CLASS EVENTS HAVE BEEN RECORDED FROM SEVERAL OTHER REGIONS. OTHER MAGNETICALLY COMPLEX ACTIVE REGIONS ARE 3487 (N04W69), 3496 (N06W37), 3504 (S16E15) AND 3505 (S07E32) THESE REGIONS HAVE BEEN STABLE OR LITTLE CHANGED THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST PERIOD. AS MOST OF THE LARGE REGIONS ARE STABLE OR ONLY LITTLE CHANGED THE CHANCE FOR AN X-CLASS EVENT IS SOMEWHAT DIMINISHED.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET. THE GEOMAGNETIC FIELD IS EXPECTED BE AT MINOR STORM LEVELS LATE ON 11 DEC UNTIL LATE ON 12 DEC, DUE TO THE EFFECTS OF THE M5/3B WHICH OCCURRED AT 09/1918UT, WITH ACTIVE CONDITIONS EXPECTED FOR THE REST OF THE FORECAST PERIOD. THE PROTON FLUX WENT BELOW EVENT LEVELS OF 10 PARTICLES/CM²/SEC/STER AT GREATER THAN 10MEV AT 11/0900UT.

III. EVENT PROBABILITIES 12 DEC-14 DEC

CLASS M 65/65/60

CLASS X 10/10/05

PROTON 15/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 DEC 287

ESTIMATED 11 DEC 288

PREDICTED 12 DEC-14 DEC 283/275/260

90 DAY MEAN 10 DEC 220

V. GEOMAGNETIC A INDICES

OBSERVED AFR 09 DEC 011 AP 10 DEC 008

ESTIMATED AFR 10 DEC 007 AFR/AP 11 DEC 020/022

PREDICTED AFR/AP 12 DEC-14 DEC 035/030-018/020-016/020

SOLTERWARN

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1304

HXAK PANC 111245

DATBB 25601 11211 0125

11111 00544 10494 20465 30590 40111 50506 60352 70111 80111 90111

33333 00111 10486 20366 30516 40405 50428

44444 00338 10111 20111 30551 40377 50111

55555 00053 10047 20049 30050 40047 50050 60050 70049 80053 90049

66666 02100 10443 20111 30070 49007 50413 60513 70002 80006

22222 00500 10493 20495 30456 40547 50542

77777 00111 10111 20488 30481 40368 50364

88888 00626 10626 20546 30546 40550 50550 99999

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HFXUS 3 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 345B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
11/1200Z TO 11/2100Z: SOLAR ACTIVITY DURING THIS PERIOD HAS BEEN
CONFINED TO LOW LEVEL CLASS C XRAY BURSTS. NO OPTICAL REPORTS
HAVE BEEN RECEIVED SINCE SUNSET IN AUSTRALIA DUE TO WEATHER AT
OTHER SITES. THE GENERAL LACK OF FLARE ACTIVITY WOULD INDICATE
A CONTINUED DECLINE IN THE STRUCTURE OF ALL DISK REGIONS.

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

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET. GENERALLY ACTIVE CONDITIONS ARE EXPECTED THROUGH
14 DECEMBER WITH A SHORT LIVED MAGSTORM EARLY ON 12 DECEMBER
STILL EXPECTED.

III. EVENT PROBABILITIES 12 DEC-14 DEC

CLASS M 65/65/60

CLASS X 10/10/05

PROTON 15/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 DEC 278

PREDICTED 12 DEC-14 DEC 270/262/252

90 DAY MEAN 11 DEC 221

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 DEC 006/008

ESTIMATED AFR/AP 11 DEC 006/012

PREDICTED AFR/AP 12 DEC-14 DEC 035/030-018/020-016/020

SOLTERWARN

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HFXUS BOU 112200

PREDM 06512 06513 06014

PREDX 01012 01013 00514

PREDP 01512 01013 01014

PCAF 00212

TENCM 27012 26213 25214

AFRED 03512 01813 01614

AFAPF 03012 02013 02014

BT