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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 008A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 08 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/1200Z TO 08/1200Z: SOLAR ACTIVITY APPROACHED THE MODERATE LEVEL WITH THE OCCURRENCE OF A C9/SR FLARE IN REGION 3537 (N08W56) AT 08/0206Z MAXIMUM. MINOR DISCRETE FREQUENCY RADIO BURSTS WERE OBSERVED WITH THIS FLARE INCLUDING 22 FLUX UNITS AT 2695MHZ. THIS REGION IS RESPONSIBLE FOR ALL BUT TWO OF THE NINE SUBFLARES OBSERVED DURING THE PAST 24 HOURS. THE OTHER TWO FLARES WERE OBSERVED IN REGION 3538 (S17W19), A SIMPLE C-TYPE GROUP. REGION 3537 IS A MATURE GROUP WITH SOME PORTIONS GROWING WHILE OTHER AREAS HAVE BEGUN TO DECAY. OVERALL, IT REMAINS A BIPOLAR GROUP WITH NO SIGNIFICANT MAGNETIC COMPLEXITY. DEVELOPMENT CONTINUES IN REGIONS 3541 (N10W11) AND 3545 (S16W07).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW. AN ISOLATED M-CLASS EVENT IS POSSIBLE FROM REGION 3537 PRIOR TO ITS WEST LIMB TRANSIT ON THE 11TH.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED DURING THE PAST 24 HOURS. UNSETLED TO SLIGHTLY ACTIVE CONDITIONS ARE EXPECTED DURING THE NEXT 24 HOURS. A SLIGHT DISTURBANCE IS POSSIBLE BY THE END OF THE UT DAY AS A RESULT OF A DEVELOPING CORONAL HOLE IN THE SOUTHWEST QUADRANT OF THE SUN, BUT CURRENT CONDITIONS DO NOT INDICATE THIS.

III. EVENT PROBABILITIES 09 JAN-11 JAN

CLASS M 25/25/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JAN 178

ESTIMATED 08 JAN 175

PREDICTED 09 JAN-11 JAN 170/162/152

90 DAY MEAN 07 JAN 212

V. GEOMAGNETIC A INDICES

OBSERVED AFR 06 JAN 011 AP 07 JAN 010

ESTIMATED AFR 07 JAN 010 AFR/AP 08 JAN 012/012

PREDICTED AFR/AP 09 JAN-11 JAN 012/010-010/010-010/010

SOLTERWARN

BT

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HFUS 3 BOU 082200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 008B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 08 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/1200Z TO 08/2100Z: SOLAR ACTIVITY ROSE TO MODERATE WITH THE OCCURRENCE OF AN M3/1B-2B FLARE AT 1432Z (MAX) FROM REGION 3537 (N09W63). THIS REGION HAS GROWN TO A LARGE CLASS D SPOT GROUP WITH A LARGE AND COMPLEX LEADER PENUMBRAL AREA. LIMB PROXIMITY MAKES ANALYSIS OF MAGNETIC FIELDS UNCERTAIN. THERE HAVE BEEN NO XRAY EVENTS OF ANY MAGNITUDE SINCE THE M3 EVENT. REGION 3545 (S16W14) CONTINUES SLOW GROWTH BUT IS STILL A SMALL AND INACTIVE REGION. ALL OTHER REGIONS ARE SMALL, STABLE OR DECLINING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW WITH A POSSIBILITY OF ANOTHER ISOLATED CLASS M EVENT BEFORE REGION 3537 CROSSES WEST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST:
THE GEOMAGNETIC FIELD HAS BEEN QUIET. QUIET TO UNSETLED CONDITIONS ARE EXPECTED THROUGHOUT THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 09 JAN-11 JAN

CLASS M 25/25/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 JAN 162

PREDICTED 09 JAN-11 JAN 158/150/142

90 DAY MEAN 08 JAN 212

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 JAN 011/010

ESTIMATED AER/AP 08 JAN 007/008

PREDICTED AFR/AP 09 JAN-11 JAN 012/010-010/010-010/010

SOLTERWARN

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HXUS BOU 082200

PREDM 02509 02510 01511

PREDX 00109 00110 00111

PREDP 00109 00110 00111

PCAFPT 00109

TENCM 15809 15010 14211

AFRED 01209 01010 01011

AFAPF 01009 01010 01011

BT