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HFUS 1 BOU 081300

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/SB 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 UNSETTLED DURING THE PAST 24 HOURS. UNSETTLED 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

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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 UNSETTLED  
 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 AFR/AP 08 JAN 007/008  
 PREDICTED AFR/AP 09 JAN-11 JAN 012/010-010/010-010/010  
 SOLTERWARN  
 BT

HXUS BOU 082200  
 PREDM 02509 02510 01511  
 PREDX 00109 00110 00111  
 PREDP 00109 00110 00111  
 PCAFT 00109  
 TENCN 15809 15010 14211  
 AFRED 01209 01010 01011  
 AFAPF 01009 01010 01011  
 BT