

HFUS 1 BOU 251300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 359A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 25 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/1200Z TO 25/1200Z: SOLAR ACTIVITY CONTINUES LOW. A C3/SB FROM REGION 3522 (N23E19) WAS OBSERVED AT 24/1842UT. THIS REGION HAS CONTINUED TO GROW AND NOW SOME MAGNETIC COMPLEXITY EXISTS IN ITS TRAILER. THIS AREA HAS ALSO BEEN REPORTED TO HAVE DEVELOPED A WEAK DELTA CONFIGURATION. OTHER REGIONS ARE SMALL AND/OR SIMPLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW TOMORROW. REGION 3522 COULD PRODUCE A CLASS M FLARE BUT THAT POSSIBILITY IS LOW AT THIS STAGE. HOWEVER, CONTINUED SUBFLARING IS EXPECTED. A POSSIBLY ACTIVE REGION IS DUE TO RETURN TO THE EAST LIMB ON 27 DECEMBER.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED. QUIET TO SLIGHTLY UNSETTLED CONDITIONS ARE EXPECTED TO CONTINUE UNTIL LATE ON 27 DECEMBER WHEN ACTIVE LEVELS SHOULD BEGIN TO BE EXPERIENCED DUE TO CORONAL HOLE EFFECTS. ACTIVE LEVELS ARE FORECAST TO CONTINUE ON 28 DECEMBER.

III. EVENT PROBABILITIES 26 DEC-28 DEC

CLASS M 10/15/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 DEC 163

ESTIMATED 25 DEC 170

PREDICTED 26 DEC-28 DEC 175/183/189

90 DAY MEAN 24 DEC 215

V. GEOMAGNETIC A INDICES

OBSERVED AFR 23 DEC 006 AP 24 DEC 009

ESTIMATED AFR 24 DEC 008 AFR/AP 25 DEC 005/008

PREDICTED AFR/AP 26 DEC-28 DEC 006/008-010/014-016/016

SOLTERWARN

BT

HYUS BOU 251300

PREDM 01026 01527 02028

PREDX 00126 00127 00128

PREDP 00126 00127 00128

PCAFT 00126

TENCM 17526 18327 18928

AFRED 00626 01027 01628

AFAPF 00826 01427 01628

KKK 21222 21212 23232

BT

HFUS 3 BOU 252200
 FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
 SDF NUMBER 359B
 JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
 ISSUED 2200Z 25 DEC 1981
 IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
 25/1200Z TO 25/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE
 PAST 9 HOURS. PRACTICALLY THE ONLY EVENT REPORTED WAS A C3/SF
 FLARE FROM A PLAGE AREA NEAR THE POSITION OF REGION 3526
 (S08E50). AT THIS TIME IT IS NOT CLEAR WHETHER THE ACTIVITY WAS
 IN REGION 3526 OR WHETHER A TINY NEW REGION IS EMERGING THERE.
 IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
 CONTINUE LOW FOR THE NEXT 24 HOURS. THERE IS SOME DOUBT ABOUT
 FORMATION OF A DELTA CONFIGURATION IN REGION 3522 (N22E13) SO
 M-CLASS FLARE POTENTIAL MUST STILL BE CONSIDERED QUITE LOW.
 II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
 BEEN GENERALLY QUIET FOR THE PAST 9 HOURS. THE FIELD IS
 EXPECTED TO CONTINUE QUIET TO MILDLY UNSETTLED FOR THE NEXT 24
 HOURS. ACTIVE CONDITIONS ARE EXPECTED LATE ON 27 DECEMBER AS A
 RESULT OF THE PRESENCE OF A FAIRLY WELL DEVELOPED LOW LATITUDE
 CORONAL HOLE, NOW PAST CENTRAL MERIDIAN.
 III. EVENT PROBABILITIES 26 DEC-28 DEC
 CLASS M 10/15/20
 CLASS X 01/01/01
 PROTON 01/01/01
 PCAF GREEN
 IV. OTTAWA 10.7 CM FLUX
 OBSERVED 25 DEC 168
 PREDICTED 26 DEC-28 DEC 173/181/187
 90 DAY MEAN 25 DEC 215
 V. GEOMAGNETIC A INDICES
 OBSERVED AFR/AP 24 DEC 008/009
 ESTIMATED AFR/AP 25 DEC 006/008
 PREDICTED AFR/AP 26 DEC-28 DEC 006/008-010/014-016/016
 SOLTERWARN
 BT

HXUS BOU 252200
 PREDM 01026 01527 02028
 PREDX 00126 00127 00128
 PREDP 00126 00127 00128
 PCAFT 00126
 TENCM 17326 18127 18728
 AFRED 00626 01027 01628
 AFAPF 00826 01427 01628
 BT