

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		

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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

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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