

HFUS 1 BOU 261300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 026A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 26 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/1200Z TO 26/1200Z: SOLAR ACTIVITY HAS CONTINUED LOW DURING THIS PERIOD. REGION 4073 (N05E27) PRODUCED SEVERAL SMALL FLARES THIS PERIOD THE LARGEST A SF/C1 AT 26/0210UT. REGIONS 4072 (S07E22) AND 4074 (S16E70) ALSO PRODUCED SMALL OPTICAL EVENTS. REGION 4073 IS NOW A D-TYPE GROUP HOWEVER GROWTH IS REPORTED TO HAVE SLOWED ALTHOUGH A WEAK ARCH FILAMENT SYSTEM REMAINS IN PROGRESS. THE REST OF THE REGIONS ARE REPORTED AS STABLE OR SLIGHTLY DECAYED THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW DURING THE FORECAST PERIOD. OLD ACTIVE REGIONS, DUE TO RETURN DURING THIS FORECAST PERIOD, WERE SMALL AND PRODUCED ONLY MINOR EVENTS LAST ROTATION. GROWTH IN THE CURRENT DISK REGIONS MAY INCREASE THE PRODUCTION OF FLARES HOWEVER THE EVENTS ARE EXPECTED TO BE BELOW M CLASS LEVELS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY ACTIVE THIS PERIOD. THE LARGE POSTIVE CORONAL HOLE NOW AT N25W07 IS NOT EXPECTED TO PRODUCE ANY GEOMAGNETIC EFFECTS. DUE TO THE ABSENCE OF LARGE FLARES AND/OR FILAMENTS, WHICH HAVE DISAPPEARED DURING THE PAST FOUR DAYS THE FIELD IS EXPECTED TO BE UNSETTLED TO NEAR QUIET DURING THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 27 JAN-29 JAN

CLASS M 10/10/10
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	25 JAN	127
ESTIMATED	26 JAN	135
PREDICTED	27 JAN-29 JAN	138/142/134
90 DAY MEAN	25 JAN	171

V. GEOMAGNETIC A INDICES

OBSERVED AFR	24 JAN	020	AP 25 JAN	017
ESTIMATED AFR	25 JAN	014	AFR/AP 26 JAN	012/015
PREDICTED AFR/AP	27 JAN-29 JAN	008/015-008/010-010/010		

SOLTERWARN

BT

HFUS 3 BOU 262200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 026B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 26 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/1200Z TO 26/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 4074(S16E63) HAS BEEN THE MAIN SOURCE OF ACTIVITY BUT HAS PRODUCED ONLY C1/SF FLARES. REGIONS 4072(S07E16) AND 4073(N05E21) CONTINUE TO GROW AND BOTH HAVE SHOWN AFS IN RECENT HOURS. NEW REGION 4075(S13E??) APPEARED OVER THE EAST LIMB TODAY SHOWING A SINGLE SPOT SO FAR.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW. SOME INCREASE IN THE FREQUENCY OF ACTIVITY MAY BE EXPECTED SINCE MORE REGIONS APPEAR CAPABLE OF ACTIVITY. NO REGION APPEARS CAPABLE OF M. LEVEL ACTIVITY AT PRESENT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED WITH MIDLATITUDE K-INDICES OF 3. OBSERVED FOR THE PERIOD. GEOMAGNETIC ACTIVITY SHOULD CONTINUE UNSETLED WITH A TREND TOWARD QUIET EXPECTED.

III. EVENT PROBABILITIES: 27 JAN-29 JAN

CLASS M	10/10/10
CLASS X	01/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	26 JAN	148
PREDICTED	27 JAN-29 JAN	158/163/168
90 DAY MEAN	26 JAN	171

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP	25 JAN	014/017
ESTIMATED AFR/AP	26 JAN	014/015
PREDICTED AFR/AP	27 JAN-29 JAN	008/015-008/015-010/010

SOLTERWARN

BT