

HFUS 1 BOU 151300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 074A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 15 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/1200Z TO 15/1200Z: SOLAR ACTIVITY HAS CONTINUED LOW THIS PERIOD. REGION 3634 (N05W54) AND 3644 (N08E29) HAVE PRODUCED MOST OF THE OBSERVED EVENTS WITH THE LARGEST EVENT, A C4/1N, AT 14/2040UT FROM REGION 3644. REGIONS 3634 AND 3644 HAVE BOTH EXHIBITED MINOR GROWTH WITH 3644 HAVING A STRONG ARCH FILAMENT SYSTEM. ALL OTHER REGIONS ARE STABLE OR SHOWING SIGNS OF DECAY. MINOR SURGE ACTIVITY ON THE SE LIMB HAS BEEN REPORTED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW HOWEVER REGION 3634 OR 3644 MAY PRODUCE AN ISOLATED M-CLASS EVENT IF ACCELERATED GROWTH OCCURS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO QUIET. THE FIELD IS EXPECTED TO BE GENERALLY UNSETLED TO QUIET UNTIL 17 MARCH, WHEN CORONAL HOLE EFFECTS ARE EXPECTED TO PRODUCE ACTIVE TO MINOR STORM LEVELS FOR THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 16 MAR-18 MAR

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 MAR 204

ESTIMATED 15 MAR 210

PREDICTED 16 MAR-18 MAR 215/218/218

90 DAY MEAN 14 MAR 194

V. GEOMAGNETIC A INDICES

OBSERVED AFR 13 MAR 015 AP 14 MAR 010

ESTIMATED AFR 14 MAR 008 AFR/AP 15 MAR 008/010

PREDICTED AFR/AP 16 MAR-18 MAR 010/012-014/016-013/016

SOLTERWARN

BT

HXUS BOU 151300

PREDM 03016 03017 03018

PREDX 00116 00117 00118

PREDP 00116 00117 00118

PCAFT 00116

TENCM 21516 21817 21818

AFRED 01016 01417 01818

HFUS 3 BOU 152200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO.  
SDF NUMBER 074B  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 15 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/1200Z TO 15/2100Z: SOLAR ACTIVITY HAS BEEN LOW. LOW LEVEL CLASS C X-RAY BURSTS AND ASSOCIATED SUBFLARES OCCURRED IN REGIONS 3634 (N05W59), 3643 (S06E21), 3644 (N08E25), AND RAPIDLY EMERGING REGION 3649 (N14E39). REGION 3643 STILL HAS A DELTA CONFIGURATION BUT ACTIVITY HAS BEEN MINIMAL. FREQUENT PLAGE FLUCTUATIONS AND BRIGHT POINTS HAVE BEEN REPORTED FOR THE ABOVE REGIONS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET. THESE CONDITIONS SHOULD CONTINUE UNTIL THE LATTER HALF OF 16 MARCH WHEN THE FIELD IS EXPECTED TO BECOME UNSETLED TO ACTIVE IN RESPONSE TO CORONAL HOLE EFFECTS.

III. EVENT PROBABILITIES 16 MAR-18 MAR

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 MAR 211

PREDICTED 16 MAR-18 MAR 215/218/218

90 DAY MEAN 15 MAR 194

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 MAR 008/011

ESTIMATED AFR/AP 15 MAR 006/010

PREDICTED AFR/AP 16 MAR-18 MAR 010/012-014/016-018/016

SOLTERWARN

BT

HXUS BOU 152200

PREDM 03016 03017 03018

PREDX 00116 00117 00118

PREDP 00116 00117 00118

PCAF 00116

TENCM 21516 21817 21818

AFRED 01016 01417 01818

AFAPF 01216 01617 01618

BT