

HFUS 1 BOU 211300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 021A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 21 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/1200Z TO 21/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. THE ONLY C-CLASS X-RAY EVENT WAS A C1/SN FLARE FROM SPOTLESS REGION 4062 (N09W40) WHICH MAXED AT 0643Z. THE FLARE WAS ACCOMPANIED BY A DARK SURGE, WEAK RADIO NOISE ACROSS THE CENTIMETRIC SPECTRUM, AND A SYMPATHETIC SUBFAINT FLARE IN NEARBY REGION 4060 (N04W37). ALL OF THE 6 SPOTTED REGIONS ON THE VISIBLE DISK ARE DECAYING. THE MOST SIGNIFICANT REGION IS STILL REGION 4065 (S14W22) WHICH IS EXHIBITING SOME RESTRUCTURING, BRIGHT POINTS, AND PLAGE FLUCTUATIONS EVEN AS IT DECLINES IN SPOT NUMBER. NO NEW SPOTTED REGIONS NOR ANY LIMB ACTIVITY HAVE BEEN OBSERVED. A BUSHY FILAMENT LOCATED FROM S37E35 TO S40E50 AT 20/2200Z DISAPPEARED SLOWLY BETWEEN 20/2100 AND 21/0030Z. LATER REPORTS INDICATE A PARTIAL REFORMATION IS IN PROGRESS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. REGIONS PRESENTLY ON THE VISIBLE DISK DO NOT APPEAR CAPABLE OF SIGNIFICANT ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN MOSTLY UNSETTLED DURING THE PAST 24 HOURS. TODAY'S DISAPPEARING FILAMENT IS NOT FAVORABLY LOCATED FOR GEOMAGNETIC IMPACT AND THE FIELD IS EXPECTED TO BECOME PREDOMINANTLY QUIET FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 22 JAN-24 JAN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 JAN 125

ESTIMATED 21 JAN 123

PREDICTED 22 JAN-24 JAN 120/115/110

90 DAY MEAN 20 JAN 175

V. GEOMAGNETIC A INDICES

OBSERVED AFR 19 JAN 015 AP 20 JAN 014

ESTIMATED AFR 20 JAN 014 AFR/AP 21 JAN 012/010

PREDICTED AFR/AP 22 JAN-24 JAN 008/010-008/015-008/015

SOLTERWARN

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BT
HFUS 3 BOU 212200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 021B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 21 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
21/1200Z TO 21/2100Z: SOLAR ACTIVITY HAS BEEN LOW. THERE HAVE
BEEN NO X-RAY BURSTS SINCE THE C1 AT 0634Z. ALL DISK REGIONS
ARE SIMPLE IN STRUCTURE AND CONTINUE THEIR SLOW DECAY.

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

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED. THE FIELD IS EXPECTED TO REMAIN UNSETTLED; BUT
AN INCREASE IN THE LEVEL OF INTENSITY IS EXPECTED ON 23-24
JANUARY IN RESPONSE TO A WEAK EQUATORIAL CORONAL HOLE.

III. EVENT PROBABILITIES 22 JAN-24 JAN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 JAN 120

PREDICTED 22 JAN-24 JAN 115/110/105

90 DAY MEAN 21 JAN 174

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 JAN 012/014

ESTIMATED AFR/AP 21 JAN 010/010

PREDICTED AFR/AP 22 JAN-24 JAN 010/010-012/015-014/015

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