

HFUS3 BOU 012200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 060

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 01 MAR 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/2100  
TO 01/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4629 (N03W60)  
PRODUCED AN ACTIVE FILAMENT THAT PARTIALLY DISAPPEARED FROM  
N08W54 AT 01/1814Z. THIS FIVE DEGREE PORTION HAD BEEN FADING  
WITH FLARE ENHANCEMENTS IRRADIALLY EARLIER. NO NEW REGION WAS  
ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
VERY LOW. NO RETURNING REGION PROVIDES SIGNIFICANT ACTIVITY  
POTENTIAL.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 28/2100Z TO 01/2100Z:  
GEOMAGNETIC ACTIVITY WAS AT MINOR STORM-TO-ACTIVE LEVELS. THE  
MAJOR STORM THAT SUDDENLY STARTED AT 17/2127Z PEAKED WITH BOTH  
A GLOBAL AND MID-LATITUDE K-INDEX OF SEVEN AT 28/0430Z. IT  
DECREASED BELOW THE MINOR STORM LEVEL THRESHOLD AT 1/0900Z JUST  
AFTER A BRIEF SECONDARY DISTURBANCE FROM 1/0600-0900Z. THIS  
STORM WAS ATTRIBUTED TO A FOUR DEGREE LONG DISAPPEARING  
FILAMENT FROM N12E28 AT 23/1301Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS  
EXPECTED TO BE UNSETTLED-TO-ACTIVE THE FIRST TWO DAYS (2-3  
MAR). THE THIRD DAY (4 MAR) IS EXPECTED TO BE AT AN INCREASING  
ACTIVE LEVEL DUE TO THE HIGH-SPEED/LOW DENSITY STREAM FROM A  
CROSS-EQUATORIAL EXTENSION OF THE SOUTH POLAR CORONAL HOLE  
CROWN THAT HAD PRODUCED MINOR STORMS FROM THESE CARRINGTON  
LONGITUDES THE PAST TWO ROTATIONS. THE OUTLOOK IS FOR A  
RECURRENT ACTIVE-TO-MINOR STORM DISTURBANCE ON 5 MAR WITH  
DECREASING ACTIVITY DOWN TO PREDOMINATELY ACTIVE LEVELS BY 7  
MAR. THE SMALL DISAPPEARING FILAMENT OF TODAY SHOULD ENHANCE  
THE GEOMAGNETIC ACTIVITY ON 5-6 MAR IF IT IS CAPABLE OF  
EFFECTING ANY MAGNETOSPHERE DISTURBANCE AT ALL.

III. EVENT PROBABILITIES 02 MAR-04 MAR

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 MAR 071

PREDICTED 02 MAR-04 MAR 071/071/070

90 DAY MEAN 01 MAR 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 FEB 055/068

ESTIMATED AFR/AP 01 MAR 014/020

PREDICTED AFR/AP 02 MAR-04 MAR 010/015-012/015-019/020

SOLTERWARN

BT