

HEUS 1 BOU 211400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 080A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1200UT 21 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
20/1200UT TO 21/1200UT:

SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. SEVERAL  
C-CLASS EVENTS HAVE BEEN RECORDED, THE LARGEST EVENTS HAVE  
BEEN ASSOCIATED WITH REGION 2993 (N13E42) A C6/SN 21/0246UT,  
C6/IB 21/0346UT AND C7/SB 21/0637UT. REGION 2993 HAS INCREASED  
IN BOTH SIZE AND MAGNETIC COMPLEXITY, A DELTA HAS BEEN REPORTED IN  
THE TRAILER PORTION. REGION 2984 (N09W22) HAS PRODUCED MINOR, BUT  
RADIO RICH, C-CLASS EVENTS. REGION 2984 ALSO HAS A DELTA AND  
CONTINUES TO GROW.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST PERIOD.  
REGIONS 2993 AND 2984 HAVE THE POTENTIAL FOR M-CLASS EVENTS WITH AN  
ISOLATED X-CLASS EVENT POSSIBLE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED.

THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED.

III. EVENT PROBABILITIES: 22 - 24 MARCH 1981

CLASS M 60/60/60

CLASS X 05/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 20 MAR 177

ESTIMATED 21 MAR 184

PREDICTED 22-24 MAR 188/193/205

90 DAY MEAN 20 MAR 198

V. GEOMAGNETIC A INDICES

OBSERVED AFR 19 MAR 09 AP 20 MAR 12

ESTIMATED AFR 21 MAR 08 AFR/AP 21 MAR 07/07

PREDICTED AFR/AP 22-24 MAR 10/10 10/10 10/15

SOLTERWARN

BT