

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 066

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 07 MAR 1989

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100Z  
TO 07/2100Z: SOLAR ACTIVITY WAS HIGH. REGION 5395 (N34E57)  
CONTINUED ITS MAJOR FLARE PRODUCTION WITH AN X1/2B AT 07/1458Z.  
THIS EVENT WAS ACCOMPANIED BY MINOR RADIO EMISSIONS. THIS  
REGION ALSO PRODUCED FOUR M-CLASS FLARES DURING THE PERIOD, THE  
LARGEST OF WHICH WAS AN M4/1B AT 07/1326Z. THE REMAINING REGIONS  
WERE QUIET AND STABLE. NO NEW REGIONS WERE ASSIGNED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
HIGH. THERE IS A GOOD CHANCE FOR ADDITIONAL MAJOR FLARE  
ACTIVITY FROM REGION 5395.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z:  
THE GEOMAGNETIC FIELD HAS BEEN AT UNSETTLED TO ACTIVE LEVELS  
FOR THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS  
EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS. MINOR STORMING  
IS EXPECTED TO OCCUR ON THE SECOND DAY IN RESPONSE TO  
YESTERDAY'S X15/3B FLARE. A SATELLITE PROTON EVENT AT GREATER  
THAN 10 MEV IS FORECAST TO BEGIN WITHIN THE NEXT 12 TO 24  
HOURS, ALSO IN RESPONSE TO THE X15/3B FLARE.

III. EVENT PROBABILITIES 08 MAR-10 MAR

CLASS M 90/90/90

CLASS X 50/50/50

PROTON 20/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 MAR 210

PREDICTED 08 MAR-10 MAR 220/230/240

90 DAY MEAN 07 MAR 223

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 MAR 022/022

ESTIMATED AFR/AP 07 MAR 013/020

PREDICTED AFR/AP 08 MAR-10 MAR 025/035-040/045-020/030