

KBOU  
HFUS 3 BOU 232200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 144

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 MAY 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100 TO 23/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE DUE TO A M1/1B EVENT FROM REGION 4492 (S11E07) AT 0500UT THIS EVENT PRODUCED MINOR RADIO WITH 84 FLUX UNITS OBSERVED AT 2695MHZ. REGION 4492 CONTINUES TO EXHIBIT MINOR SIZE DECAY HOWEVER THE REGION MAINTAINS A DELTA MAGNETIC CONFIGURATION. AN ERUPTIVE PROMINENCE WAS OBSERVED AT 2007UT FROM N01W90 NO X RAY INCREASE WAS OBSERVED WITH THIS EVENT. ALL REGIONS ON THE VISIBLE DISK ARE STABLE OR IN STATE OF MINOR DECAY. NO NEW REGIONS WERE OBSERVED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT LOW TO MODERATE LEVELS DURING THIS FORECAST PERIOD.

CONTINUED DECAY IS EXPECTED IN REGION 4492 DURING THE NEXT 48 HOURS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 22/2100Z TO 23/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY ACTIVE WITH SHORT PERIODS OF MAJOR STORM LEVELS MOSTLY DURING THE NIGHT TIME SECTORS. THIS ACTIVITY IS BELIEVED TO BE CAUSED FROM A NEGATIVE POLARITY CORONAL HOLE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS ON 24 MAY WITH GENERALLY ACTIVE CONDITIONS FOR THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 24 MAY-26 MAY

CLASS M 40/30/15

CLASS X 05/01/01

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 MAY 127

PREDICTED 24 MAY-26 MAY 127/123/115

90 DAY MEAN 23 MAY 130

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 MAY 020/039

ESTIMATED AFR/AP 23 MAY 028/040

PREDICTED AFR/AP 24 MAY-26 MAY 030/030-020/025-020/020

SOLTERWARN

RT