

HFUS3-BOU-142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 166

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 JUN 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/2100Z TO 14/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. EVENTS HAVE INCREASED MARKEDLY OVER THE PAST TWENTY FOUR HOURS. THESE INCLUDE SEVERAL C CLASS X-RAY FLARES (THE LARGEST WAS A C5 AT 2011 UT, LOCATION UNKNOWN), NUMEROUS RADIO BURSTS AND SWEEPS, AND SEVERAL OPTICAL SUBFLARES. REGIONS 4509 (S12W19) AND 4511 (S08E19) HAVE REMAINED RELATIVELY STABLE, ALTHOUGH REGION 4509 HAS CONTRIBUTED THREE OPTICAL SUBFLARES AND A C1 X-RAY FLARE. REGION 4513 (S07E49) IS THE MOST IMPRESSIVE REGION PRESENTLY ON THE DISK, WITH A D TYPE SPOT CLASSIFICATION AND AN AREA OF 240 MILLIONTHS. ONE NEW REGION WAS NUMBERED THIS PERIOD, 4514 (S06E80), A H TYPE SPOT GROUP. THIS REGION IS PROBABLY THE RETURN OF OLD REGION 4492.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW TO MODERATE THROUGHOUT THE FORECAST PERIOD. MODERATE LEVEL ACTIVITY IS POSSIBLE WITH FURTHER DEVELOPMENT IN REGION 4513 AND NEW REGION 4514.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 13/2100Z TO 14/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT UNSETTLED LEVELS, AT ALL LATITUDES, THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BE AT ACTIVE TO STORM LEVELS, AT ALL LATITUDES, THROUGHOUT THE FORECAST PERIOD. INCREASED ACTIVITY WILL BE DUE TO RECURRENT CORONAL HOLE STREAMS.

III. EVENT PROBABILITIES 15 JUN-17 JUN

CLASS M	30/40/40
CLASS X	01/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	14 JUN	109
PREDICTED	15 JUN-17 JUN	112/115/119
90 DAY MEAN	14 JUN	124

V. GEOMAGNETIC A INDICES

OBSERVED	AFR/AP 13 JUN	003/009
ESTIMATED	AFR/AP 14 JUN	008/015
PREDICTED	AFR/AP 15 JUN-17 JUN	015/015-015/020-020/025

SOLTERWARN

BT