

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 13/2100 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