

HFUS3 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 137

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 17 MAY 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/2100Z TO 17/2100Z: SOLAR ACTIVITY WAS VERY LOW. NEWLY ASSIGNED REGION 4656 (N08E71) IS A SIMPLE BETA MAGNETIC TYPE SPOT GROUP. IT WAS RESPONSIBLE FOR THE SOLE OBSERVED OPTICAL FLARE-- A 0N/B3-- WHICH ATTAINED MAXIMUM AT 1248Z. THIS REGION IS THE RETURN OF OLD REGION 4647 WHICH PRODUCED AN X1 PROTON FLARE ON IT'S DISK TRANSIT. ASSOCIATED PROMINENCE ACTIVITY WAS NOTED EARLY IN THE PERIOD NEAR N05. REGION 4652 (S13W56) HAS BEEN DORMANT. A C1 X RAY EVENT WAS DETECTED AT 1858Z BUT NO OPTICAL COUNTERPART WAS OBSERVED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. BOTH REGIONS 4652 AND 4656 HAVE THE POTENTIAL FOR SMALL FLARE ACTIVITY AND ONLY OCCASIONAL C-CLASS FLARES ARE EXPECTED.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 16/2100Z TO 17/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED FOR THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE PREDOMINANTLY UNSETTLED THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 18 MAY-20 MAY

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 MAY 090

PREDICTED 18 MAY-20 MAY 089/088/087

90 DAY MEAN 17 MAY 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 MAY 011/015

ESTIMATED AFR/AP 17 MAY 007/015

PREDICTED AFR/AP 18 MAY-20 MAY 012/015-012/015-012/015

SOLTERWARN

BT