

KBOU

HFUS3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 240

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 AUG 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100 TO 27/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGIONS 4565 (S13W50) AND 4567 (S06E38) HAVE BEEN THE MOST ACTIVE REGIONS ON THE DISK. BOTH REGIONS HAVE SHOWN DYNAMICS, BUT NOT ENOUGH TO PRODUCE MORE THAN SUBOPTICAL FLARES IN THE PAST 24 HOURS. ONE NEW REGION WAS NUMBERED TODAY AS REGION 4568 (N17E30) WHICH IS A B-TYPE SPOT GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED BE LOW WITH A SLIGHT CHANCE OF AN M-LEVEL EVENT OCCURRING IN THE NEXT THREE DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: THE GEOMAGNETIC FIELD VARIED BETWEEN UNSETTLED AND MINOR STORM LEVELS AT ALL LATITUDES DURING THIS PERIOD. UNTIL 1200UT THE FIELD WAS GENERALLY UNSETTLED AT ALL LATITUDES. AT THAT TIME THE FIELD BECAME DISTURBED WITH ACTIVE TO MINOR STORM LEVELS BEING REPORTED AT ALL STATIONS. SOME STATIONS AT HIGH LATITUDES REPORTED INTERMITTENT PERIODS AT MAJOR STORM LEVELS. THIS INCREASED ACTIVITY IS POSSIBLY ASSOCIATED WITH A D I SAPPEARING FILAMENT THAT OCCURRED ON THE 23RD OF AUGUST.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN AT ACTIVE TO MINOR STORM LEVELS THROUGH THE 29TH OF AUGUST. THIS FORECAST IS BASED ON A CORONAL HOLE THAT PASSED CENTRAL MERIDIAN ON TH 26TH. THE FIELD SHOULD THEN DECREASE IN ACTIVITY ON THE 30TH WITH UNSETTLED TO ACTIVE CONDITIONS DOMINATING.

III. EVENT PROBABILITIES 28 AUG-30 AUG

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCA F GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 AUG 089

PREDICTED 28 AUG-30 AUG 090/091/092

90 DAY MEAN 27 AUG 092

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 AUG 013/015

ESTIMATED AFR/AP 27 AUG 024/025

PREDICTED AFR/AP 28 AUG-30 AUG 020/020-020/025-015/020

SOLTERWARN

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