

FUS 3 BOU 022200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 214
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 02 AUG 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100 TO 02/2100Z: SOLAR ACTIVITY HAS BEEN LOW. THE REGION COMPLEX INCLUDING REGIONS 4263(S10E02) 4267(S22E11) 4268(S05E14) 4271(S11E18) NOW APPROACHING CENTRAL MERIDIAN HAS BEEN STABLE. AT LEAST ONE MAGNETIC DELTA IS PRESENT IN 4263 AND ITS GRADIENTS REMAIN HIGH AND STRUCTURE COMPLEX. REMAINING REGIONS APPEAR STABLE AND QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO RETURN TO MODERATE WITH AN OCCASIONAL MAJOR FLARE POSSIBLE FROM REGION 4263.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. ACTIVITY INCREASED SHARPLY AT HIGH LATITUDES TO MINOR STORM AND APPROACHED MINOR STORM AT MIDLATITUDE EARLY IN THE UT DAY. THE SOURCE OF ACTIVITY APPEARS TO BE THE RECURRENT CORONAL HOLE EXTENDING TO LOW LATITUDES FROM THE NORTH POLE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY SHOULD CONTINUE ACTIVE UNTIL NEAR MIDDAY ON 4 AUG. MINOR STORM LEVEL ACTIVITY IS EXPECTED TO FOLLOW DUE TO MAJOR FLARE OF 1 AUG.

III. EVENT PROBABILITIES 03 AUG-05 AUG

CLASS M	60/60/60
CLASS X	05/05/05
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	02 AUG	144
PREDICTED	03 AUG-05 AUG	144/140/136
90 DAY MEAN	02 AUG	134

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP	01 AUG	006/010
ESTIMATED AFR/AP	02 AUG	025/030
PREDICTED AFR/AP	03 AUG-05 AUG	020/020-026/025-032/025

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