

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

SOLTERWARN

BT