

HFUS 3 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 160

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 09 JUN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/2100 TO 09/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 4201 (S09W62) HAS CHANGED LITTLE THIS PERIOD. HOWEVER FLARE PRODUCTION FROM THE REGION HAS BEEN ONLY THREE SMALL "C" EVENTS THE LARGEST A C4/SN OCCURRED AT 0207UT. REGION 4204 (S10E18) ALSO HAS EXHIBITED LITTLE CHANGE AND HAS MAINTAINED A BETA/Delta MAGNETIC CONFIGURATION. IT HAS PRODUCED A FEW "C" CLASS EVENTS THE LARGEST WAS A C2/SN AT 1820UT. THE REST OF THE REGIONS HAVE BEEN GENERALLY STABLE. NEW REGION TODAY 4206 (S15W10) A SIMPLE "A" TYPE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE NEAR MODERATE LEVELS DURING THE FORECAST PERIOD. IF RAPID CHANGE OCCURS IN REGIONS 4201/4204 THEN A "X" CLASS EVENT IS POSSIBLE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 08/2100Z TO 09/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY ACTIVE THIS PERIOD. A SHORT PERIOD OF MINOR STORM, MAJOR STORM AT THE HIGH LATITUDE SITES, CONDITIONS WERE OBSERVED FROM 0730UT TO 1030UT. THE DISTURBANCE IS BELIEVED TO BE FROM THE NORTHERN CORONAL HOLE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN AT ACTIVE LEVELS UNTIL 11 JUNE WHEN CONDITIONS ARE EXPECTED TO RETURN TO UNSETTLED LEVELS FOR THE DURATION OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 10 JUN-12 JUN

CLASS M 30/20/20

CLASS X 10/05/05

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 JUN 157

PREDICTED 10 JUN-12 JUN 150/145/135

90 DAY MEAN 09 JUN 127

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 JUN 010/014

ESTIMATED AFR/AP 09 JUN 020/025

PREDICTED AFR/AP 10 JUN-12 JUN 020/020-012/020-012/020

SOLTERWARN

BT