

HFUS 3 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 159

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 08 JUN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/2100 TO 08/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE WITH REGION 4201 (S09W49) PRODUCING A SINGLE M1/1N EVENT AT 1309UT. REGION 4201 HAS EXHIBITED MINOR AREA AND SPOT LOSS DURING THE PAST 24 HOURS. THE MAGNETIC GRADIENTS HAVE ALSO RELAXED HOWEVER THE REGION IS STILL A BETA-GAMMA-DELTA WITH A CONVOLUTED NEUTRAL LINE. REGION 4204 (S09E31) HAS HAD ONLY MINOR EVENTS, MOST JUST POINT BRIGHTENINGS, DURING THE PAST 24 HOURS. REGION 4204 HAS CONTINUED TO HAVE SLOW GROWTH AND IS A BETA DELTA BUT THE NEUTRAL LINE IS ALMOST A SIMPLE NORTH TO SOUTH TYPE. THE REST OF THE REGIONS ARE LITTLE CHANGED AND NO NEW GROUPS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THIS FORECAST PERIOD. REGIONS 4201 AND 4204 BOTH APPEAR CAPABLE OF PRODUCING "M" CLASS EVENTS WITH REGION 4201, IF RAPID DECAY OCCURS, HAVING THE POTENTIAL OF AN ISOLATED "X" CLASS EVENT.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 07/2100Z TO 08/2100Z: THE FIELD WAS GENERALLY UNSETTLED UNTIL 1800UT WHEN A SHORT PERIOD OF ACTIVE CONDITIONS, MINOR STORM AT HIGH LATITUDES, WAS OBSERVED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO BE AT ACTIVE LEVELS FOR THE NEXT TWO DAYS. A LARGE CORONAL HOLE WHICH EXTENDS FROM THE NORTH POLE TO N15W45 IS EXPECTED TO BE THE CAUSE OF THIS ACTIVITY.

III. EVENT PROBABILITIES 09 JUN-11 JUN

CLASS M 80/80/80

CLASS X 10/10/05

PROTON 05/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 JUN 169

PREDICTED 09 JUN-11 JUN 167/165/163

90 DAY MEAN 08 JUN 126

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 JUN 007/010

ESTIMATED AFR/AP 08 JUN 010/015

PREDICTED AFR/AP 09 JUN-11 JUN 015/025-015/020-012/020

SOLTERWARN

BT