

FUS 3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 256

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 13 SEP 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100 TO 13/2100Z: SOLAR ACTIVITY DURING THE PAST 24 HOURS HAS BEEN VERY LOW. ACTIVITY HAS BEEN LIMITED TO OCCASIONAL WEAK SUBFLARING FROM REGION 4310 (S22W39). THE ONLY REGIONS OF ANY CONSEQUENCE ON THE SOLAR DISK ARE 4307 (S08W47) AND 4317 (S13E37). BOTH REGIONS ARE RELATIVELY SMALL AND MAGNETICALLY SIMPLE. HOWEVER, NEW MAGNETIC FLUX IS EMERGING IN BOTH OF THEM, AND THEY ARE GROWING SLOWLY. NO NEW REGIONS WERE IDENTIFIED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT LOW LEVELS OVER THE NEXT 24 HOURS. SOME MINOR SUBFLARING FROM REGION 4317 CAN BE ANTICIPATED OVER THE NEXT THREE DAYS AS IT MATURES.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 12/2100Z TO 13/2100Z: THE GEOMAGNETIC FIELD HAS BEEN CONSISTENTLY UNSETTLED DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN AT GENERALLY UNSETTLED LEVELS OVER THE NEXT TWO DAYS. SLIGHTLY MORE ACTIVE CONDITIONS ARE ANTICIPATED ON THE THIRD DAY OF THE FORECAST PERIOD.

-III. EVENT PROBABILITIES 14 SEP-16 SEP

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 SEP 103

PREDICTED 14 SEP-16 SEP 104/104/104

90 DAY MEAN 13 SEP 124

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 SEP 012/017

ESTIMATED AFR/AP 13 SEP 010/015

PREDICTED AFR/AP 14 SEP-16 SEP 010/010-010/010-015/025

SOLTERWARN

BT