

HFUS3 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 221

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 08 AUG 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/2100 TO 08/2100Z: SOLAR ACTIVITY HAS BEEN LOW. IN THE LAST 24 HOURS REGION 4554 (N08E15) HAS ALMOST DOUBLED IN AREA AND IN NUMBER OF SPOTS. THIS GROUP REMAINS A D-TYPE SPOT GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. DUE TO THE INCREASED AREA OF REGION 4554, THERE IS AN INCREASED CHANCE OF A C-LEVEL EVENT OCCURRING OVER WHAT WAS FORECAST YESTERDAY. THIS REGION STILL IS NOT COMPLEX ENOUGH NOR DYNAMIC ENOUGH TO WARRANT SIGNIFICANT PROBABILITY OF AN M-LEVEL EVENT OCCURRING.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 07/2100Z TO 08/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE LEVELS AT ALL LATITUDES FOR THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO CLIMB TO STORM LEVELS ON THE 9TH DUE TO THE EFFECTS OF A RECURRENT CORONAL HOLE. THE FIELD SHOULD REMAIN AT STORM CONDITIONS THROUGH THE 11TH WHEN IT IS EXPECTED TO RETURN TO ACTIVE LEVELS.

III. EVENT PROBABILITIES 09 AUG-11 AUG

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 AUG 091

PREDICTED 09 AUG-11 AUG 092/094/093

~~90 DAY MEAN~~ ~~08 AUG~~ ~~102~~

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 AUG 002/008

ESTIMATED AFR/AP 08 AUG 018/018

PREDICTED AFR/AP 09 AUG-11 AUG 030/030-030/040-025/035

SOLTERWARN

BT