

HFUS3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 268

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 SEP 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100 TO 24/2100Z: SOLAR ACTIVITY HAS CONTINUED VERY LOW WITH NO SPOTS VISIBLE THIS PERIOD. A SMALL AREA OF PLAGE (S03E21) HAS EXHIBITED THE MOST ACTIVITY WITH A SMALL ACTIVE FILAMENT AND PLAGE FLUCTUATIONS BEING OBSERVED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW DURING THIS FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: THE GEOMAGNETIC FIELD WAS AT MAJOR TO MINOR STORM LEVELS AT BOTH THE HIGH AND MID LATITUDE SITES UNTIL 1500UT WHEN THE MID LATITUDE SITES WENT TO ACTIVE CONDITIONS WHILE THE HIGH LATITUDE SITES CONTINUED AT STORM LEVELS. THE LARGE SOUTHERN POSITIVE CORONAL HOLE IS NOW LOCATED AT 40 DEGREES WEST.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS DURING THIS FORECAST PERIOD. MOST OF THE PERIODS OF STORM CONDITIONS SHOULD BE OBSERVED DURING THE NIGHT TIME SECTORS WITH SHORT PERIODS OF MAJOR STORM CONDITIONS OBSERVED DURING THE FIRST 48 HOURS OF THIS FORECAST PERIOD. MOST OF THIS ACTIVITY IS FORECAST DUE TO THE SOUTHERN CORONAL HOLE.

III. EVENT PROBABILITIES 25 SEP-27 SEP

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 SEP 076

PREDICTED 25 SEP-27 SEP 076/077/077

90 DAY MEAN 24 SEP 085

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 SEP 076/083

ESTIMATED AFR/AP 24 SEP 030/050

PREDICTED AFR/AP 25 SEP-27 SEP 025/025-025/025-015/020

SOLTERWARN

BT