

HFUS3 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 228

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 AUG 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100 TO 15/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 4554 (N08W74) PRODUCED A 1N FLARE (MAXIMUM 14/2359) AND SEVERAL OTHER SUBFLARES BUT NONE OF THEM REACHED THE C-CLASS X-RAY LEVEL. OPTICAL OBSERVATIONS OF THIS REGION, WHICH IS THE MOST SIGNIFICANT ON THE VISIBLE DISK, ARE HAMPERED BY ITS WEST LIMB PROXIMITY. NO NEW REGIONS WERE NUMBERED TODAY. SURGING ON THE EAST LIMB (S17) WAS REPORTED AT 14/2100 UT. THIS MAY SIGNAL A RETURNING REGION (OLD 4549) EXPECTED LATE ON 17 AUGUST.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. NO REGIONS PRESENTLY ON THE DISK OR SCHEDULED TO RETURN DURING THE NEXT THREE DAYS ARE CAPABLE OF ENERGETIC ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z: GEOMAGNETIC ACTIVITY HAS BEEN AT ACTIVE TO MINOR STORM LEVELS DURING THE PAST 24 HOURS. THIS ACTIVITY IS ATTRIBUTED TO A CORONAL DISTURBANCE ASSOCIATED WITH A FILAMENT DISAPPEARANCE NEAR S10W10 EARLY ON 11 AUGUST.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO CONTINUE AT ACTIVE TO MINOR STORM LEVELS ON 16 AUGUST, DECLINING TOWARD UNSETTLED CONDITIONS BY THE END OF THE FORECAST PERIOD. IN ADDITION TO DISTURBED SOLAR WIND FROM THE FILAMENT DISAPPEARANCE, THERE MAY BE SOME EFFECTS FROM A RATHER HIGH SOLAR LATITUDE (NORTH OF N30) BUT EXTENDED CORONAL HOLE SEEN IN SACRAMENTO PEAK CORONAL GREEN LINE DATA. THIS NEGATIVE POLARITY HOLE CROSSED CENTRAL MERIDIAN ON 12 AUGUST.

III. EVENT PROBABILITIES 16 AUG-18 AUG

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 AUG 081

PREDICTED 16 AUG-18 AUG 075/075/080

90 DAY MEAN 15 AUG 098

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 AUG 018/020

ESTIMATED AFR/AP 15 AUG 025/030

PREDICTED AFR/AP 16 AUG-18 AUG 020/025-015/015-010/015

SOLTERWARN

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