

HFUS 3 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 258

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 SEP 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100Z TO 15/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THIS PERIOD. THE LARGEST EVENT OBSERVED WAS A C9/SB FROM REGION 4317 (S13E12) AT 1406UT, MINOR RADIO WAS OBSERVED WITH THIS EVENT. REGION 4317 IS OBSERVED TO CONTAIN A "DELTA" MAGNETIC CONFIGURATION AND HAS EXHIBITED SOME MINOR GROWTH THIS PERIOD. THE REST OF THE REGIONS HAVE BEEN GENERALLY STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE NEAR MODERATE LEVELS IF REGION 4317 CONTINUES TO EXHIBIT GROWTH AND CONTINUED MAGNETIC COMPLEXITY. OLD REGION 4302 (S08 L=329) IS DUE TO RETURN IN THE NEXT TWO DAYS THIS REGION PRODUCED ONE "M" CLASS EVENT LAST ROTATION AND WAS SHOWING GROWTH AS IT PASSED OVER THE WEST LIMB.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED UNTIL 1930UT WHEN THE FIELD WENT TO ACTIVE LEVELS AT THE MID-LATITUDE SITES AND TO MAJOR STORM LEVELS AT THE HIGH LATITUDE SITES. THIS ACTIVITY IS BELIEVED TO BE FROM THE FILAMENT WHICH DISAPPEARED BETWEEN 11-12 SEP.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS DURING THIS FORECAST PERIOD DUE TO THE FILAMENT DISAPPEARANCE AND RECURRENT ACTIVITY.

III. EVENT PROBABILITIES 16 SEP-18 SEP

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 SEP 105

PREDICTED 16 SEP-18 SEP 105/106/106

90 DAY MEAN 15 SEP 124

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 SEP 007/009

ESTIMATED AFR/AP 15 SEP 017/020

PREDICTED AFR/AP 16 SEP-18 SEP 025/025-025/025-020/020

SOLTERWARN

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