

HFUS3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 257

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 SEP 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/2100 TO 14/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4694 (S10E54) WAS A SIMPLE CSO. NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 13/2100Z TO 14/2100Z: THE CURRENT GEOMAGNETIC DISTURBANCE STARTED AT 14/0600Z WITH A SUDDEN GLOBAL IMPULSE AND INCREASED THE OVERALL FIELD FROM QUIET TO ACTIVE LEVELS. MINOR STORM CONDITIONS OCCURRED AT MID LATITUDES AND MAJOR CONDITIONS AT HIGH LATITUDES UNTIL 1800Z. THIS ACTIVITY MAY BE THE RESULT OF A NINE DEGREE LONG DISAPPEARING FILAMENT ON 11 SEP, OR THE 15 DEGREES (TOTAL OF TWO SEGMENTS) LONG DISAPPEARING FILAMENTS OF 7 SEP. A DISTINCT SOLAR SECTOR BOUNDARY PASSED CENTRAL MERIDIAN ON 7 SEP BUT THIS LEVEL OF ACTIVITY EXCEEDS THE USUAL SECTOR REVERSAL RESULTS. AN UNVERIFIED CORONAL HOLE WAS INFERRED AT CENTRAL MERIDIAN YESTERDAY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE.

III. EVENT PROBABILITIES 15 SEP-17 SEP

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 SEP 070

PREDICTED 15 SEP-17 SEP 070/071/072

90 DAY MEAN 14 SEP 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 SEP 006/010

ESTIMATED AFR/AP 14 SEP 023/035

PREDICTED AFR/AP 15 SEP-17 SEP 015/020-015/020-015/020

SOLTERWARN

BT