

HFUS3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 249

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 06 SEP 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/2100 TO 06/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. NO NEW REGIONS WERE NUMBERED TODAY, BUT A BIPOLE HAS ROTATED ONTO THE DISK NEAR S15E90 WHERE REGION 4689 (S11, CAR175) WAS DUE TO RETURN AT 2000 UT. CURRENTLY SPOTLESS, THIS REGION MAY EXHIBIT SPOTS UPON FURTHER INSPECTION AS IT ROTATES FULLY ONTO THE DISK. NO OTHER SPOTTED REGIONS WERE OBSERVED. A FAIRLY ACTIVE PROMINENCE ON THE NORTHEAST LIMB HAD QUIETED BY FORECAST ISSUE TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW FOR THE NEXT 72 HOURS. NO SIGNIFICANT REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 05/2100Z TO 06/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED WITH PERIODS OF MINOR STORM CONDITIONS AT HIGH LATITUDES AFTER 1030 UT 06 SEPTEMBER. ACTIVITY HAS GENERALLY INCREASED AT ALL LATITUDES DURING THE PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED WITH PERIODS OF MINOR STORM CONDITIONS AT HIGH LATITUDES FOR THE NEXT 48 HOURS. THE FIELD WILL THEN BE ACTIVE WITH EXTENDED PERIODS OF MINOR STORM CONDITIONS AT ALL LATITUDES FOR THE LAST 24 HOURS OF THE FORECAST PERIOD. THE SOURCE OF THE INCREASED ACTIVITY ON 08-09 SEPTEMBER IS THE EFFECT OF THE PASSAGE OF A CORONAL HOLE PAST THE SOLAR CENTRAL MERIDIAN EARLY ON 06 SEPTEMBER. RECURRENCE STRONGLY SUGGESTS THAT ACTIVITY WILL PERSIST THROUGH 11 SEPTEMBER.

III. EVENT PROBABILITIES 07 SEP-09 SEP

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 SEP 071

PREDICTED 07 SEP-09 SEP 071/072/073

90 DAY MEAN 06 SEP 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 SEP 002/007

ESTIMATED AFR/AP 06 SEP 008/012

PREDICTED AFR/AP 07 SEP-09 SEP 010/015-012/020-018/025

SOLTERWARN

BT