

FUS 3 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 166

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 JUN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100 TO 15/2100Z: SOLAR ACTIVITY HAS REMAINED LOW DURING THIS PERIOD. REGION 4204 (S09W67) CONTINUES TO EXHIBIT DECAY AND IS NOW A "C" TYPE GROUP WITH A BETA MAGNETIC CONFIGURATION. THE REST OF THE REGIONS HAVE BEEN LITTLE CHANGED. NEW REGION TODAY IS 4213 (S13E55) A SIMPLE "B" TYPE.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE LEVELS DURING THE PAST 24 HOURS. AT THE HIGH LATITUDES THE FIELD WENT TO MAJOR STORM LEVELS AFTER 1800UT.

A MINOR PROTON ENHANCEMENT WAS OBSERVED AT SATELLITE ALTITUDES BEGINNING AT 15/0600UT, EVENT LEVELS HAVE NOT BEEN REACHED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE LEVELS DURING THE NEXT 72 HOURS AS THE EFFECTS OF THE FILAMENT WHICH DISAPPEARED BETWEEN 11 AND 12 JUNE ARRIVE. THE HIGH LATITUDE SITES WILL HAVE SHORT PERIODS OF MINOR TO MAJOR STORM LEVELS DURING THE NEXT 36 HOURS.

III. EVENT PROBABILITIES 16 JUN-18 JUN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 JUN 125

PREDICTED 16 JUN-18 JUN 126/127/128

90 DAY MEAN 15 JUN 129

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 JUN 018/017

ESTIMATED AFR/AP 15 JUN 014/025

PREDICTED AFR/AP 16 JUN-18 JUN 025/025-025/025-015/020

SOLTERWARN

BT