

HFUS3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 317

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 12 NOV 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100 TO 12/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 4592 (N16W25) CONTINUES TO EXHIBIT A FAIRLY COMPLEX MAGNETIC PATTERN. THIS SPOT GROUP IS STILL A D-TYPE AND HAS A BETA GAMMA MAGNETIC CONFIGURATION. THIS REGION PRODUCED A C-CLASS FLARE AT 1017Z WHICH WAS ACCCOMPANIED BY NUMEROUS MINOR RADIO BURSTS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGION 4592 IS STILL CAPABLE OF PRODUCING A SIGNIFICANT EVENT.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETLED WITH ISOLATED ACTIVE PERIODS OCCURRING AT 11/2100-12/0130Z AND 12/0300-0730Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT MINOR STORM LEVELS ON THE 13TH OF NOVEMBER. THIS IS EXPECTED BECAUSE OF A CORONAL SHOCK DUE TO ARRIVE FROM THE FLARES PRODUCED BY REGION 4592 ON THE 10TH OF NOVEMBER. ON THE 14TH AND 15TH THE FIELD IS EXPECTED TO BE AT MINOR TO MAJOR STORM DUE TO A LARGE SOUTHERN CORONAL HOLE.

III. EVENT PROBABILITIES 13 NOV-15 NOV

CLASS M 35/35/35

CLASS X 02/02/02

PROTON 02/02/02

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 NOV 074

PREDICTED 13 NOV-15 NOV 076/076/076

90 DAY MEAN 12 NOV 077

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 NOV 017/017

ESTIMATED AFR/AP 12 NOV 013/020

PREDICTED AFR/AP 13 NOV-15 NOV 030/035-050/050-040/040

SOLTERWARN

BT