

HFUS3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 291

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 18 OCT 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/2100 TO 18/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE LAST 24 HOURS. REGION 4698 (N04E43) HAS DECAYED IN SPOT AREA BUT HAS A KINKED NEUTRAL LINE OF CHANGING COMPLEXITY. IT PRODUCED A SUBFAINT FLARE (1914 UT MAXIMUM). THE REGION WAS VISIBLE IN CALCIUM XV (YELLOW-LINE) UPON EAST LIMB PASSAGE. NEW REGION 4699 (N06E61), A B-TYPE GROUP, EMERGED RAPIDLY ON THE DISK AND FREQUENT POINT BRIGHTENINGS HAVE BEEN OBSERVED. A FILAMENT NEAR S41E10 AT 17/2126 WAS NO LONGER VISIBLE AT 18/1425 UT. AN ACTIVE FILAMENT NEAR N01E24 BEGAN TO DISAPPEAR AFTER 1900 UT. NO LIMB ACTIVITY WAS REPORTED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW BUT WITH AN INCREASING PROBABILITY OF SIGNIFICANT FLARE ACTIVITY FROM REGION 4698.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 17/2100Z TO 18/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE LEVELS AT MIDDLE LATITUDES FOR THE LAST 24 HOURS, WITH PERIODS AT MINOR STORM LEVELS AT HIGH LATITUDES. THIS GENERAL LEVEL OF ACTIVITY HAS PERSISTED FOR THE PAST SEVERAL DAYS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN AT GENERALLY ACTIVE LEVELS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 19 OCT-21 OCT

CLASS M 05/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 OCT 076

PREDICTED 19 OCT-21 OCT 080/080/080

90 DAY MEAN 18 OCT 071

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 OCT 017/019

ESTIMATED AFR/AP 18 OCT 016/028

PREDICTED AFR/AP 19 OCT-21 OCT 015/020-015/025-015/020

SOLTERWARN

BT