

BESC Solar Summary and Forecast - For Joe Hirman

Begin: 10/28/87 00:00:00

End : 10/28/87 23:59:00

10/28 22:00

2200

4FUS3 BOU 2B2200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 301

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 OCT 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100Z TO 28/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4878 (S21E38) PRODUCED A C1/1N AT 28/0130UT. REGION 4875 (N31E24) WAS QUIET BUT CONTINUED TO INCREASE IN SPOT NUMBER. REGION 4881 (S22W24) CONTINUED TO EMERGE RAPIDLY AND IS NOW A CLASS D GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE VERY LOW. AN ISOLATED CLASS M FLARE FROM REGION 4875 REMAINS POSSIBLE. IF GROWTH CONTINUES, REGION 4881 SHOULD BEGIN TO PRODUCE CLASS C FLARES AND INFREQUENT CLASS M FLARES WOULD ALSO BECOME POSSIBLE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z: THE GEOMAGNETIC FIELD AT MID LATITUDES WAS AT ACTIVE TO MINOR STORM LEVELS. PRIMARILY MAJOR STORM CONDITIONS WERE EXPERIENCED AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE CURRENT GEOMAGNETIC DISTURBANCE SHOULD BEGIN TO DECLINE ON 29 OCT TO ACTIVE LEVELS AT MID LATITUDES AND MINOR STORM LEVELS AT HIGH LATITUDES. ACTIVE CONDITIONS ARE FORECAST FOR 30 OCT. A DISAPPEARING FERMENT RELATED GEOMAGNETIC DISTURBANCE SHOULD BEGIN ON 31 OCT RESULTING IN ACTIVE TO MINOR STORM CONDITIONS.

III. EVENT PROBABILITIES 29 OCT-31 OCT

CLASS M 10/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 OCT 108

PREDICTED 29 OCT-31 OCT 112/114/115

90 DAY MEAN 28 OCT 091

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 OCT 025/046

ESTIMATED AFR/AP 28 OCT 028/065

PREDICTED AFR/AP 29 OCT-31 OCT 020/037-015/028-018/035

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