

~~HFUS 3 BOU 152200~~

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 286

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 13 OCT 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100Z TO 13/2100Z: SOLAR ACTIVITY CONTINUED AT A LOW LEVEL DURING THIS PERIOD. REGION 4335 (N22W12) PRODUCED THE LARGEST EVENT OBSERVED A C7/SN, NO RADIO WAS REPORTED, AT 0612UT. REGION 4335 HAS EXHIBITED MINOR GROWTH IN SIZE THIS PERIOD HOWEVER IT STILL REMAINS A BETA. ALL OTHER DISK REGIONS HAVE BEEN REPORTED AS STABLE OR ONLY SLIGHTLY DECAYED THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A LOW LEVEL DURING THIS FORECAST PERIOD. REGION 4335 IS THE ONLY REGION CURRENTLY ON THE VISIBLE DISK THAT APPEARS, IF GROWTH CONTINUES, CAPABLE OF ISOLATED ENERGETIC EVENTS. THERE ARE NO OLD REGIONS DUE TO RETURN DURING THIS FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 12/2100Z TO 13/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE LEVELS SINCE THE START OF 13 OCT THIS IS THOUGHT TO BE DUE TO THE EFFECTS OF A SOLAR SECTOR BOUNDARY PASSAGE. SHORT PERIODS OF MAJOR/MINOR STORM CONDITIONS WERE OBSERVED AT THE HIGH LATITUDE SITES GENERALLY DURING THE NIGHT TIME SECTORS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE LEVELS, MINOR STORM PERIODS AT THE HIGH LATITUDE SITES, ON 14 AND 16 OCT DUE TO THE EFFECTS OF SOLAR SECTOR BOUNDARY PASSAGES. ON 15 OCT THE FIELD IS EXPECTED TO BE AT UNSETLED TO ACTIVE LEVELS.

III. EVENT PROBABILITIES 14 OCT-16 OCT

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 OCT 140

PREDICTED 14 OCT-16 OCT 132/129/125

90 DAY MEAN 13 OCT 121

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 OCT 002/008

ESTIMATED AFR/AP 13 OCT 023/030

PREDICTED AFR/AP 14 OCT-16 OCT 018/020-010/015-020/025

SOLTERWARN

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