

~~HFUS 3 BCU 132200~~

FROM SPACE ENVIRONMENT SERVICES CEN ER, BOULDER, COLORADO
SDF NUMBER 286

JOINT USAF/NOAA REPORT OF SOLAR AND GEO PHYSICAL ACTIVITY.

ISSUED 2200Z 13 OCT 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100
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 UNSETTLED 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

BT