

HFUS3 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 294

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 20 OCT 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/2100 TO 20/2100Z: SOLAR ACTIVITY HAS CONTINUED VERY LOW DURING THE PAST 24 HOURS. REGION 4586 (N05W16), WHICH IS NOW A C TYPE, HAS EXHIBITED MINOR DECAY IN BOTH SPOT NUMBER AND OVER ALL SIZE OF THE GROUP. A SMALL AREA OF PLAGE LOCATED AT (N06E39) HAS BEEN OBSERVED TO HAVE AN ARCH FILAMENT SYSTEM BUT NO SPOTS HAVE BEEN OBSERVED IN THIS AREA.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE AT A VERY LOW LEVEL DURING THIS FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 19/2100Z TO 20/2100Z: THE GEOMAGNETIC FIELD WAS AT MINOR STORM, SHORT PERIODS OF MAJOR STORM, CONDITIONS AT THE MID LATITUDE SITES. THE HIGH LATITUDE SITES OBSERVED GENERALLY MAJOR STORM CONDITIONS DURING THIS PERIOD. THIS ACTIVITY IS THOUGHT TO BE CAUSED BY A HIGH SPEED CORONAL HOLE STREAM WHICH HAS EFFECTED THE MAGNETIC FIELD THE LAST THREE ROTATIONS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM CONDITIONS AT THE MID LATITUDE SITES DURING THE FORECAST PERIOD. THE HIGH LATITUDE SITES WILL HAVE SHORT PERIODS OF MAJOR CONDITIONS DURING THE FIRST TWO DAYS OF THE FORECAST THEN GENERALLY ACTIVE WITH SHORT PERIODS OF MINOR STORM DURING THE LAST DAY OF THE FORECAST. THE SITES WILL HAVE THEIR MOST ACTIVE PERIODS DURING NIGHT TIME SECTORS.

III. EVENT PROBABILITIES 21 OCT-23 OCT

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 OCT 074

PREDICTED 21 OCT-23 OCT 074/074/074

90 DAY MEAN 20 OCT 080

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 OCT 060/067

ESTIMATED AFR/AP 20 OCT 034/061

PREDICTED AFR/AP 21 OCT-23 OCT 025/035-020/030-020/025

SOLTERWÄRN

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