

HFUSS BOU 012200 COR

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 306

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

CORRECTED COPY

ISSUED 2200Z 01 NOV 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 31/2100 TO 01/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. NEW REGION 4590 (S09W29) EMERGED JUST EAST OF REGION 4589 (S12W36) AS A SIMPLE BUT SEPARATE BIPOLE GROUP WITH AN ARCH FILAMENT SYSTEM. REGION 4589 CONTAINS A NOTABLE ACTIVE DARK FILAMENT ENCIRCLING MOST OF THE PLAGE AREA. THERE ARE TWO OTHER NUMBERED BUT UNSPOTTED REGIONS ON THE VISIBLE DISK.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE VERY LOW. THERE ARE NO REGIONS EXPECTED TO RETURN OVER THE EAST LIMB DURING THE NEXT THREE DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 31/2100Z TO 01/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED UNTIL APPROXIMATELY 0700UT, WHEN MINOR STORM CONDITIONS GRADUALLY COMMENCED. THIS ACTIVITY IS ASSOCIATED WITH A FILAMENT DISAPPEARANCE FROM N45E15 ON 29 OCTOBER. INTERPLANETARY SOLAR WIND DATA FROM THE ICE SPACECRAFT, WHICH IS 18 DEGREES ABOVE THE ECLIPTIC PLANE, SHOWED VERY HIGH DENSITIES (NEAR 50 CM-3) FOLLOWING A SHOCK SIGNATURE AT 0815 TODAY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT GENERAL MINOR STORM LEVELS FOR THE NEXT TWO DAYS WITH ACTIVE CONDITIONS CONTINUING THROUGH THE NEXT WEEK. PERIODS AT MAJOR STORM LEVELS ARE LIKELY ESPECIALLY AT HIGH LATITUDES DURING LOCAL NIGHTTIME HOURS. THIS ACTIVITY IS EXPECTED IN RESPONSE TO DISTURBED SOLAR WIND ASSOCIATED WITH A FILAMENT DISAPPEARANCE EARLY ON 30 OCTOBER, AND A RECURRENT HIGH SPEED SOLAR WIND STREAM WHICH SHOULD ARRIVE EARLY ON 02 NOVEMBER AND CONTINUE TO ENVELOP THE EARTH FOR THE NEXT SEVERAL DAYS.

III. EVENT PROBABILITIES 02 NOV-04 NOV

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 NOV 071

PREDICTED 02 NOV-04 NOV 070/070/070

90 DAY MEAN 01 NOV 078

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 OCT 006/008

ESTIMATED AFR/AP 01 NOV 025/030

PREDICTED AFR/AP 02 NOV-04 NOV 030/040-040/040-025/025

SOLTERWARN

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