

HFUS3 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 BIPOLAR 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

BT