

HFUS3 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 304

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 30 OCT 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/2100
TO 30/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24
HOURS. NEW REGION 4589 (S12W04) EMERGED ON THE DISK. IT IS AN
A-TYPE SPOT BUT WITH AN ARCH FILAMENT SYSTEM AND ACTIVE DARK
FILAMENT. TWO MAJOR FILAMENT DISAPPEARANCES OCCURRED TODAY. A
FILAMENT BETWEEN APPROXIMATELY N08W32 AND S03W53 DISAPPEARED
BETWEEN 0004 AND 1339 UT. NEXT, A FILAMENT FIFTEEN DEGREES LONG
NEAR N10E45 BEGAN TO ERUPT AT ABOUT 1530 UT. THIS ERUPTION
CONTINUES IN PROGRESS AT FORECAST ISSUE TIME. SURGING ON THE
SOUTHEAST LIMB (S21) WAS REPORTED EARLY IN THIS UT DAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN VERY LOW THROUGHOUT THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 29/2100Z TO 30/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN MOSTLY QUIET FOR THE PAST 24
HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE QUIET THROUGH THE FIRST HALF OF THE FORECAST
PERIOD, BUT SHOULD BE AT MINOR STORM LEVELS BY THE THIRD DAY.
THIS ACTIVITY IS EXPECTED FROM THE IMPACT OF A HIGH SPEED
STREAM FROM A NEGATIVE POLARITY CORONAL HOLE WHICH WILL BE AT
SOLAR CENTRAL MERIDIAN TOMORROW, AND POSSIBLE EJECTA FROM A
FILAMENT ERUPTION TODAY.

III. EVENT PROBABILITIES 31 OCT-02 NOV

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 OCT 073

PREDICTED 31 OCT-02 NOV 070/070/070

90 DAY MEAN 30 OCT 079

V. GEOMAGNETIC A INDICES

OBSERVED - AFR/AP-29 OCT - 006/009

ESTIMATED AFR/AP 30 OCT 007/010

PREDICTED AFR/AP 31 OCT-02 NOV 010/015-015/020-030/030

SOLTERWARN

BT