

HFUS 1 BOU 291300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 333A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 29 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
28/1200Z TO 29/1200Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE
PAST 24 HOURS. THE LARGEST EVENT RECORDED HAS BEEN A C4/SB FROM
REGION 4005 (S11E42) AT 28/1957UT. REGION 4007 (S14E23) HAS
PRODUCED SEVERAL SMALL C-CLASS EVENTS AND HAS AN ARCH FILAMENT
SYSTEM IN PROGRESS IT IS ALSO A BETA DELTA. REGION 4005 ALSO IS
REPORTED TO HAVE AN BETA DELTA. A SURGE OUT TO .02 RADII WAS
OBSERVED AT 29/0201UT FROM NE07, THIS MAY BE THE RETURN OF OLD
REGION 3988 (NE08 L215) THIS REGION DID NOT PRODUCE ANY
SIGNIFICANT EVENTS LAST ROTATION HOWEVER IT MAY HAVE GROWN.
THE REST OF THE REGIONS HAVE CHANGED LITTLE THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE LOW HOWEVER WITH REGIONS 4005 AND 4007 CONTINUING TO
EXHIBIT CHANGE A CHANCE OF AN M-CLASS EVENT, FROM THESE
REGIONS, REMAINS THROUGH OUT THIS FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN ACTIVE TO UNSETTLED DURING THE PAST 24 HOURS. THE FIELD IS
EXPECTED TO REMAIN UNSETTLED TO SLIGHTLY ACTIVE UNTIL LATE ON
29 OR EARLY ON 30 NOV WHEN ACTIVE TO MINOR STORM CONDITIONS ARE
EXPECTED AS A RESPONSE TO THE FILAMENT WHICH DISAPPEARED ON 26
NOV DURING A C8/2B EVENT. UNLESS A MAJOR FLARE OCCURS THE FIELD
IS EXPECTED TO RETURN TO ACTIVE CONDITIONS ON 01 DEC WITH
UNSETTLED CONDITIONS ON 02 DEC.

III. EVENT PROBABILITIES 30 NOV-02 DEC

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 NOV 171

ESTIMATED 29 NOV 165

PREDICTED 30 NOV-02 DEC 163/160/150

90 DAY MEAN 28 NOV 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR 27 NOV 016 AP 23 NOV 025

ESTIMATED AFR 28 NOV 023 AFR/AP 29 NOV 020/025

PREDICTED AFR/AP 30 NOV-02 DEC 035/035-015/015-010/010

SOLTERWARN

BT

HFUS 3 FOU 292200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 333B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY..
ISSUED 2200Z 29 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
29/1200Z TO 29/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 9
HOURS. THE LARGEST EVENT WAS A C8/LIMB EVENT MAXING AT 1412Z
FROM NEW REGION 4010 (N08E82). THIS REGION, NOW SEEN ONLY AS AN
H-TYPE SPOT, ALSO PRODUCED A BRIGHT SURGE OUT TO .22 RADII AT
APPROXIMATELY 1700Z. REGION 4007 (S14E17) IS SHOWING RAPID
GROWTH AND IS NOW OF MODERATE MAGNETIC COMPLEXITY. REGION 4005
(S10E35) DEVELOPED ADDITIONAL TRAILER SPOTS BUT ITS MAGNETIC
DELTA CONFIGURATION IS WEAKENING. THE CENTRAL PORTION OF A LONG
NORTHERN FILAMENT HAD DISAPPEARED BEFORE 1600Z, BUT IT HAS BEEN
REFORMING THROUGH THE DAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW TO MODERATE. ISOLATED M-CLASS FLARES ARE POSSIBLE FROM
REGIONS 4005, 4007, OR 4010.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN AT ACTIVE TO MINOR STORM LEVELS AT MIDLATITUDE LOCATIONS
FOR THE PAST 9 HOURS. MAJOR STORM FLUCTUATIONS ARE IN PROGRESS
AT HIGH LATITUDES. THESE CONDITIONS ARE EXPECTED TO PERSIST FOR
THE NEXT 24-36 HOURS.

III. EVENT PROBABILITIES 30 NOV-02 DEC

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 NOV 166

PREDICTED 30 NOV-02 DEC 165/160/150

90 DAY MEAN 29 NOV 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 NOV 024/025

ESTIMATED AFR/AP 29 NOV 026/035

PREDICTED AFR/AP 30 NOV-02 DEC 035/035-015/015-010/010

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