

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.

III. 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

OBSFRVED AFR	27 NOV	016	AP	28 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 EOU 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

I.A. 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.

I.B. 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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