

HFUS 1 BOU 291300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 332A  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 28 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
27/1200Z TO 28/1200Z: SOLAR ACTIVITY HAS BEEN LOW. THE LARGEST  
FLARE WAS A C9/SB FROM REGION 4007 (S14E43) WITH AN XRAY MAX  
TIME OF 0528Z. THIS REGION APPEARED ON THE DISK TODAY AND IS  
NOW A GROWING B TYPE GROUP WITH AN ARCHED FILAMENT SYSTEM.  
REGIONS 4005 (S11E60), 4000 (S23W15) AND 4008 (S22E58) ALSO HAD  
FLARES THIS PERIOD AND A C1 XRAY EVENT CAME FROM THE WEST LIMB  
AT S15 WHERE REGION 3994 HAD PREVIOUSLY ROTATED OFF THE DISK.  
OTHER CLASS C XRAY EVENTS COULD NOT BE CORRELATED WITH SPECIFIC  
REGIONS DUE TO WEATHER AT THE OBSERVATORIES. REGION 4005 HAS  
GROWN SLIGHTLY AND NOW HAS A DEFINITE BETA-GAMMA-DELTA MAGNETIC  
CONFIGURATION. REGION 4000 HAS DECREASED SLIGHTLY IN WHITE  
LIGHT AREA DURING THIS PERIOD. ALONG WITH REGION 4007 REGIONS  
4008 (S22E58) AND 4009 (S28W08),  
WERE NUMBERED TODAY. THESE ARE BOTH SMALL A TYPE GROUPS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN LOW, HOWEVER THERE IS A CHANCE FOR AN ISOLATED M CLASS  
FLARE FROM EITHER REGION 4005 OR 4007.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN ACTIVE FOR MOST OF THIS PERIOD, HOWEVER A SMALL SUDDEN  
COMMENCEMENT WAS OBSERVED AT 0023Z AND THE GEOMAGNETIC FIELD  
WENT TO MAJOR STORM LEVELS FOR THE PERIOD OF 0000 TO 0300Z.  
THE FIELD IS EXPECTED TO REMAIN AT ACTIVE CONDITIONS FOR THE  
REMAINDER OF THE 28TH, BUT IS EXPECTED TO AVERAGE MINOR STORM  
CONDITIONS OVER THE ENTIRE DAY. MINOR STORM CONDITIONS ARE  
EXPECTED TO PREVAIL ON THE 29TH AND 30TH DUE TO A FILAMENT  
DISSAPPEARANCE ON THE 26TH. ACTIVE CONDITIONS WILL THEN RETURN  
ON THE 1ST.

III. EVENT PROBABILITIES 29 NOV-01 DEC

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 NOV 163

ESTIMATED 28 NOV 165

PREDICTED 29 NOV-01 DEC 167/167/164

90 DAY MEAN 27 NOV 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR 26 NOV 020 AP 27 NOV 021

ESTIMATED AFR 27 NOV 017 AFR/AP 28 NOV 027/030

PREDICTED AFR/AP 29 NOV-01 DEC 035/035-035/035-015/015

SOLTERWARN

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HFUS 3 BOU 282200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 332B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 28 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
28/1200Z TO 28/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE  
PAST NINE HOURS, BUT THE OCCURRENCE OF C-CLASS SUBFLARES HAS  
INCREASED. REGION 4005 (S10E43) PRODUCED THE LARGEST EVENT OF  
THE PERIOD, A C4/SB AT 2009Z MAXIMUM. THIS REGION CONTINUES TO  
UNDERGO SLOW GROWTH ALONG WITH SPOT RESTRUCTURING AND  
FRAGMENTATION. ITS MAGNETIC CONFIGURATION (BETA-GAMMA-DELTA)  
REMAINS STRONG IN THE NORTHEAST PORTION OF THE GROUP. REGION  
4007 (S14E30) HAS BEEN THE MOST PROLIFIC FLARE PRODUCER OF THE  
PERIOD, WITH SIX C-CLASS SUBFLARES OBSERVED DURING THE PERIOD.  
THIS REGION MAINTAINS ITS RAPID GROWTH WITH STRONG ARCH  
FILAMENTS VISIBLE AND SIGNIFICANT PENUMBRA DEVELOPMENT. A  
POSSIBLE DELTA MAGNETIC CONFIGURATION IS NOW FORMING IN THE  
LEADER PORTION OF THE REGION. REGION 4000 (S24W27) HAS PRODUCED  
SEVERAL MINOR FLARES DURING ITS DECAY PHASE. NO NEW REGIONS  
WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE GENERALLY  
LOW, HOWEVER, A SMALL M-CLASS EVENT IS POSSIBLE FROM EITHER  
REGION 4005 OR 4007.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN AT ACTIVE LEVELS DURING THE PERIOD. MINOR STORM CONDITIONS  
ARE EXPECTED TO RETURN SHORTLY AFTER THE BEGINNING OF THE NEW  
UT DAY, AND CONTINUE FOR APPROXIMATELY 43 HOURS. THE LAST DAY  
OF THE PERIOD SHOULD THEN RETURN TO ACTIVE LEVELS.

III. EVENT PROBABILITIES 29 NOV-01 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

PREDICTED 29 NOV-01 DEC 167/167/161

90 DAY MEAN 28 NOV 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 NOV 016/021

ESTIMATED AFR/AP 28 NOV 023/030

PREDICTED AFR/AP 29 NOV-01 DEC 035/035-035/035-015/015

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