

HFUS 1 BOU 261300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 299A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 26 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
25/1200Z TO 26/1200Z: SOLAR ACTIVITY HAS REMAINED MODERATE THIS  
PERIOD WITH A SINGLE M CLASS EVENT, AN M2/1B FLARE FROM REGION  
3960(N12E14) AT 25/2248Z. THIS REGION REMAINS MAGNETICALLY  
COMPLEX WITH DELTA STILL PRESENT. REGION 3955(S10W17) HAS  
DECLINED; GRADIENTS HAVE RELAXED SOMEWHAT BUT ONE DELTA IS  
STILL REPORTED. REGION 3961(S06E23) HAS CONTINUED TO GROW  
RAPIDLY AND IS NOW AN E CLASS SIMPLE BETA GROUP. SPOT MOTION  
AND CONTINUOUS STRONG AFS APPARENTLY ASSOCIATED WITH LARGE  
SCALE RESTRUCTURING IN THAT AREA OF THE DISK MAKES THIS REGION  
WORTH CLOSE ATTENTION. REMAINING REGIONS ARE SIMPLE AND  
RELATIVELY SMALL.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN  
MODERATE WITH SOME REDUCTION IN POTENTIAL IN DECLINING REGION,  
3955 BALANCED AGAINST RECENT DEVELOPMENT IN REGION 3961.

II. GEOPHYSICAL SUMMARY AND FORECAST: A SUDDEN COMMENCEMENT AT  
26/0031Z HAS BEEN FOLLOWED BY MINOR STORM CONDITIONS UP TO  
ISSUE TIME. ACTIVE CONDITIONS ARE EXPECTED UNTIL LATE ON 28 TO  
EARLY ON 29 OCT AT WHICH TIME EFFECTS OF FILAMENT  
DISAPPEARANCES BEFORE 25/1715Z MAY DEVELOP. ACTIVE TO MINOR  
STORM CONDITIONS ARE EXPECTED TO RESUME AND CONTINUE THROUGH THE  
END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 27 OCT-29 OCT  
CLASS M 70/70/70  
CLASS X 05/05/05  
PROTON 05/05/05  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX  
OBSERVED 25 OCT 202  
ESTIMATED 26 OCT 206  
PREDICTED 27 OCT-29 OCT 205/204/197  
90 DAY MEAN 25 OCT 162

V. GEOMAGNETIC A INDICES  
OBSERVED AFR 24 OCT 006 AP 25 OCT 018  
ESTIMATED AFR 25 OCT 016 AFR/AP 26 OCT 026/020  
PREDICTED AFR/AP 27 OCT-29 OCT 018/020-015/025-018/025  
SOLTERWARN  
BT

HXUS BOU 261300  
PREDM 07027 07028 07029  
PREDX 00527 00528 00529  
PREDP 00527 00528 00529  
PCAFT 00127  
TENCM 20527 20428 19729  
AFRED 01827 01528 01829  
AFAPF 02027 02528 02529  
KKK 33344 33333 34332  
BT

RUN BEDIT FILE RRTX TO EDIT  
HNSPUNBDDUM862R00FOR TAPE  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 299B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 26 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
26/1200Z TO 26/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THIS  
PERIOD. REGION 3961 (S06E16) PRODUCED THE LARGEST EVENT  
OBSERVED THIS PERIOD A C2/SN AT 1630UT. REGIONS 3961, 3955  
(S10W24) AND 3967 (N10W02) ALL HAVE ARCH FILAMENT SYSTEMS  
HOWEVER ONLY REGION 3961 IS REPORTED TO HAVE SHOWN RAPID GROWTH  
AND IS NOW ALMOST 500 MILLIONTHS WITH A BETA-GAMMA MAGNETIC  
CONFIGURATION. REGION 3955 HAS SHOWN LITTLE CHANGE THIS PERIOD  
BUT STILL HAS A BETA-GAMMA-DELTA. NEW REGION 3967 IS A SIMPLE  
"C" TYPE GROUP BUT IT HAS EXHIBITED GROWTH THIS PERIOD. ALL  
OTHER REGIONS STABLE OR SLIGHTLY DECAYED THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
AT OR NEAR MODERATE LEVELS DURING THIS FORECAST PERIOD. REGIONS  
3960 (N12E08), 3961 AND 3955 HAVE BOTH THE SIZE AND MAGNETIC  
COMPLEXITY TO PRODUCE AN ISOLATED "M" CLASS EVENT EACH DAY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN AT ACTIVE LEVELS THIS PERIOD. THE FIELD IS EXECTED TO BE  
ACTIVE DURING THE FORECAST PERIOD WITH PERIODS AT MINOR STORM  
LEVELS ON 29 OCT DUE TO THE EFFECTS OF THE FILAMENT WHICH  
DISAPPEARED SOME TIME ON 25 OCT.

III. EVENT PROBABILITIES 27 OCT-29 OCT

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 OCT 196

PREDICTED 27 OCT-29 OCT 195/193/188

90 DAY MEAN 26 OCT 163

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 OCT 013/018

ESTIMATED AFR/AP 26 OCT 028/028

PREDICTED AFR/AP 27 OCT-29 OCT 018/020-020/025-025/025

SOLTERWARN

BT