

HFUS 1 BOU 281300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 271A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 28 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
27/1200Z TO 28/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST  
24 HOURS. REGION 3917 (N16E07) IS SHOWING SLOW GROWTH, SUBFLARE  
ACTIVITY, AND IS NOW THE MOST MAGNETICALLY COMPLEX REGION  
(BETA-GAMMA) ON THE DISK. HOWEVER, REGION 3922 (N14E23) WHICH  
IS IN CLOSE PROXIMITY TO 3917, APPEARS TO BE THE MOST LIKELY  
CANDIDATE FOR SIGNIFICANT EVENTS AT THIS TIME. REGION 3922 HAS  
A GOOD MAGNETIC GRADIENT, A MEASURED SPOT AREA IN EXCESS OF 500  
MILLIONTHS, AND AN ACTIVE DARK FILAMENT IN ITS CENTER. REGION  
3916 (S17W18) HAS DOUBLED IN SIZE AND CONTAINS A WELL-DEVELOPED  
ARCH FILAMENT SYSTEM. REGION 3919 (S11E03) HAS DECAYED BUT IS  
STILL EXPECTED TO PRODUCE C-CLASS FLARE EVENTS. THE EAST LIMB  
HAS BEEN QUIET WITH NO REPORTS OF RETURNING SPOTS AT NE14.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
LOW TO MODERATE. REGIONS 3922 AND/OR 3917 SHOULD PRODUCE  
SIGNIFICANT ACTIVITY WITHIN THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN MOSTLY UNSETTLED FOR THE PAST 24 HOURS WITH THE EXCEPTION  
OF A PERIOD AT MINOR STORM LEVELS FROM 02-05Z. THE FIELD IS  
EXPECTED TO BE GENERALLY UNSETTLED THROUGHOUT THE FORECAST  
PERIOD WITH OCCASIONAL EXCURSIONS TO ACTIVE LEVELS ESPECIALLY  
DURING LOCAL NIGHTTIME HOURS.

III. EVENT PROBABILITIES 29 SEP-01 OCT

CLASS M 35/45/45

CLASS X 01/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 SEP 191

ESTIMATED 28 SEP 195

PREDICTED 29 SEP-01 OCT 200/200/205

90 DAY MEAN 27 SEP 163

V. GEOMAGNETIC A INDICES

OBSERVED AFR 26 SEP 052 AP 27 SEP 035

ESTIMATED AFR 27 SEP 036 AFR/AP 28 SEP 020/018

PREDICTED AFR/AP 29 SEP-01 OCT 015/025-015/020-012/015

SOLTERWARN

BT

STOP AT 3055

FEUS" SDEOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 271B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/1200Z TO 28/2100Z: SOLAR ACTIVITY CONTINUED LOW THIS PERIOD WITH ONLY SMALL C-CLASS EVENTS BEING OBSERVED. REGION 3919 (S11W02) PRODUCED A C1/SF EVENT AT 1822UT. REGIONS 3921 AND 3924 HAVE BEEN COMBINED INTO ONE GROUP WHICH IS NUMBERED 3921 (S19E25) THE GROUP IS A "F" TYPE WITH A BETA MAGNETIC CONFIGURATION. NEW REGION TODAY IS 3927 (N23E21) A SIMPLE "B" TYPE GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGIONS 3922 (N14E18) AND 3917 (N16E02) BOTH APPEAR CAPABLE OF ISOLATED M-CLASS EVENTS, IF RAPID GROWTH OCCURS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED DURING THIS PERIOD. THE FIELD IS EXPECTED TO BE UNSETTLED TO SLIGHTLY ACTIVE DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 29 SEP-01 OCT

CLASS M 35/45/45

CLASS X 01/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 SEP 196

PREDICTED 29 SEP-01 OCT 200/200/205

90 DAY MEAN 28 SEP 164

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 SEP 038/035

ESTIMATED AFR/AP 28 SEP 018/018

PREDICTED AFR/AP 29 SEP-01 OCT 015/025-015/020-012/015

SOLTERWARN

BT