

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 3DBOU 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