

HFUS 1 BOU 041300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 277A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 04 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/1200Z TO 04/1200Z: SOLAR ACTIVITY HAS CONTINUED LOW DURING THE PAST 24 HOURS WITH ONLY SMALL C-CLASS EVENTS BEING OBSERVED. THE LARGEST EVENT WAS A C3/SB FROM REGION 3931 (N16W33) AT 03/1653UT. THIS EVENT HAD A 1500 FLUX UNIT BURST AT 245 MHZ. REGION 3919 (S12W74) HAS EXHIBITED SOME INCREASE IN MAGNETIC COMPLEXITY AND NOW HAS A WEAK DELTA. REGION 3922 (N14W56) CONTINUES WITH A DELTA HOWEVER THE REGION HAS ONLY PRODUCED MINOR EVENTS DURING THIS PERIOD. ALL OTHER REGIONS HAVE BEEN LITTLE CHANGED OR ARE DECAYING. RADIO SCANS INDICATE NO MAJOR ACTIVE REGIONS ARE JUST OVER THE EAST LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE DURING THIS FORECAST PERIOD. REGIONS 3919 AND 3922 HAVE THE POTENTIAL FOR M-CLASS EVENTS AND IF RAPID CHANGE OCCURS THEN A SLIGHT CHANCE FOR X-CLASS EVENTS EXISTS. A RAPID DROP IN SOLAR INDICES IS EXPECTED AS THE LARGE ACTIVE REGIONS, 3919 AND 3922, ROTATE OVER THE WEST LIMB DURING THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED TO SLIGHTLY ACTIVE DURING THE PAST 24 HOURS. UNLESS A MAJOR FLARE OR OTHER SOLAR EVENT OCCURS THE FORECAST IS FOR LITTLE CHANGE IN THE GEOMAGNETIC FIELD DURING THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 05 OCT-07 OCT

CLASS M 70/50/40

CLASS X 10/05/05

PROTON 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 OCT 195

ESTIMATED 04 OCT 187

PREDICTED 05 OCT-07 OCT 181/170/155

90 DAY MEAN 03 OCT 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR 02 OCT 019 AP 03 OCT 012

ESTIMATED AFR 03 OCT 012 AFR/AP 04 OCT 014/010

PREDICTED AFR/AP 05 OCT-07 OCT 012/015-008/010-012/010

SOLTERWARN

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HFUS 3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 277B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 04 OCTOBER 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/1200Z
TO 04/2100Z: SOLAR ACTIVITY HAS REMAINED LOW. REGIONS 3922
(N13W63), 3930 (N13W53) AND 3919 (S12W78) ARE SHOWING A LITTLE
DYNAMIC BEHAVIOR IN ONE OF SEVERAL FORMS; SMALL FLARES, ACTIVE
FILAMENTS OR POINT BRIGHTENINGS. THE LARGEST FLARE WAS A C6/SN
FROM 3922 AT 04/1801Z (MAX). REGIONS 3922 AND 3930 RETAIN THEIR
DELTA MAGNETIC CONFIGURATIONS BUT THEY ARE APPARENTLY WEAK.
REGION 3935 (N07E78), A SIMPLE ALPHA TYPE SPOT, WAS NUMBERED
TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW BUT THE POTENTIAL FOR AN ISOLATED M-EVENT WILL REMAIN FOR
ANOTHER 48 TO 72 HOURS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD
HAS BEEN UNSETLED TO ACTIVE. UNSETLED CONDITIONS SHOULD
DOMINATE THE FIELD FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 05 OCTOBER - 07 OCTOBER

CLASS M 70/50/40

CLASS X 10/05/05

PROTON 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 OCTOBER 184

PREDICTED 05-07 OCTOBER 175/166/155

90-DAY MEAN 04 OCTOBER 171

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 03 OCTOBER 09/12

ESTIMATED AFR/AP 04 OCTOBER 13/15

PREDICTED AFR/AP 05-07 OCTOBER 12/15 - 08/10 - 12/10

SOLTERWARN

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