

HFUS 1 BOU 101300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 130A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 10 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/1200Z TO 10/1200Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 3717 (S05W36) IS DECAYING AND REMAINS A BASICALLY BIPOLAR GROUP WITH SOME MINOR MIXED POLARITIES. AN H SPOT HAS ROTATED OVER THE EAST LIMB AT NE03. THIS APPEARS TO BE THE RETURN OF OLD REGION 3695 WHICH TRAVERSED THE WEST LIMB AS A QUIET H GROUP. NO ACTIVITY HAS BEEN OBSERVED FROM THIS AREA. SEVERAL SMALL SUNSPOT GROUPS FROM YESTERDAY HAVE BECOME SPOTLESS PLAGES TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW FOR THE NEXT THREE DAYS. THERE EXISTS A SLIGHT POSSIBILITY OF A DECAY PHASE CLASS M FLARE FROM REGION 3717. NO SIGNIFICANT REGIONS ARE EXPECTED TO RETURN TO THE EAST LIMB DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED SINCE THE MILD DISTURBANCE EARLY ON 9 MAY. QUIET TO SLIGHTLY UNSETTLED GEOMAGNETIC CONDITIONS ARE FORECAST TO CONTINUE FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 11 MAY-13 MAY

CLASS M 30/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 MAY 137

ESTIMATED 10 MAY 133

PREDICTED 11 MAY-13 MAY 130/128/125

90 DAY MEAN 09 MAY 185

V. GEOMAGNETIC A INDICES

OBSERVED AFR 08 MAY 004 AP 09 MAY 011

ESTIMATED AFR 09 MAY 012 AFR/AP 10 MAY 006/005

PREDICTED AFR/AP 11 MAY-13 MAY 008/010-008/010-010/015

SOLTERWARN

BT

HFUS 3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO
SDF NUMBER 130B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 10 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/1200Z
TO 10/2100Z: SOLAR ACTIVITY IS LOW. FOUR SMALL, SIMPLE REGIONS
WERE NUMBERED TODAY. THE LARGEST OF THESE, WHICH ROTATED OVER
THE EAST LIMB, IS NUMBER 3727 (N05E74). THIS REGION IS A
RELATIVELY PLAGELESS H-TYPE SPOT. THE OTHER THREE REGIONS ARE
SMALL A-TYPE SPOTS; 3728 (S12W13), 3729 (S08W10) AND 3730
(N20E02), REGION 3717 (S04W44) CONTINUES TO OCCASIONALLY
EXHIBIT THREATENING BEHAVIOR BUT SO FAR REMAINS UNPRODUCTIVE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE
LOW. AN ISOLATED M EVENT FROM REGION 3717 REMAINS A POSSIBILITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN GENERALLY LOW. A LARGE FILAMENT DISAPPEARED IN THE NORTHWEST,
BUT IT IS BELIEVED AT THIS TIME THAT THE LOCATION WAS TOO FAR
NORTH FOR GEOMAGNETIC EFFECTS. QUIET TO UNSETTLED CONDITIONS
ARE EXPECTED TO CONTINUE.

III. EVENT PROBABILITIES 11 MAY - 13 MAY

CLASS M 30/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 MAY 128

PREDICTED 11-13 MAY 123/113/114

90-DAY MEAN 10 MAY 184

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 MAY 11/11

ESTIMATED AFR/AP 10 MAY 07/10

PREDICTED AFR/AP 11-13 MAY 08/10 - 08/10 - 10/15

SOLTERWARN

BT