

HFUS 1 BOU 111300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 131A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 11 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/1200Z TO 11/1200Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 3717 (S04W50) HAS CONTINUED ITS PRODUCTION OF CLASS C SUBFLARES. THE TRAILER OF THIS REGION IS SHOWING RAPID DECAY WHILE MIXED POLARITIES REMAIN VISIBLE IN THE LEADER. SEVERAL NEW REGIONS WERE NUMBERED TODAY, THE MOST SIGNIFICANT BEING 3727 (N05E69) WHICH IS A SIMPLE H GROUP WITH DULL PLAGE. AN ACTIVE SURGE AREA HAS BEEN OBSERVED AT SE20 ALONG WITH BRIGHT PLAGE. PRELIMINARY INDICATIONS ARE THAT THIS IS NOT A MAJOR REGION. A LARGE FILAMENT AT N28-43E03-W19 FADED BETWEEN 10/1600-1700UT. NO TYPE II OR SOFT X-RAY EVENT ACCOMPANIED THIS ERUPTION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW FOR THE NEXT THREE DAYS. AN ISOLATED CLASS M FLARE IS POSSIBLE FROM 3717. CLASS C FLARE FREQUENCY SHOULD INCREASE DUE TO REGIONS ROTATING OVER THE EAST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. UNSETTLED CONDITIONS ARE EXPECTED TO CONTINUE FOR THE NEXT TWO DAYS. WHILE THE LARGE FILAMENT ERUPTION OBSERVED ON 10 MAY IS NOT EXPECTED TO RESULT IN A GEOMAGNETIC STORM, ACTIVE GEOMAGNETIC CONDITIONS FROM THIS EVENT ARE FORECAST TO BE EXPERIENCED BEGINNING LATE ON 13 MAY AND CONTINUING THROUGH 14 MAY.

III. EVENT PROBABILITIES 12 MAY-14 MAY

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 MAY 123

ESTIMATED 11 MAY 123

PREDICTED 12 MAY-14 MAY 120/116/110

90 DAY MEAN 10 MAY 184

V. GEOMAGNETIC A INDICES

OBSERVED AFR 09 MAY 011 AP 10 MAY 007

ESTIMATED AFR 10 MAY 007 AFR/AP 11 MAY 007/008

PREDICTED AFR/AP 12 MAY-14 MAY 008/010-014/015-018/015

SOLTERWARN

BT

HFUS 3 R0U 2142201

CORRECTION

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 131R

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 11 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/1200Z TO 11/2100Z: A SLIGHT INCREASE IN THE FREQUENCY OF OCCURRENCE OF SMALL ACTIVITY HAS BEEN NOTED SINCE YESTERDAY, BUT IN GENERAL, THE LEVEL REMAINS LOW. ANOTHER H-TYPE SPOT GROUP ROTATED OVER THE EAST LIME WHICH MAY ACCOUNT FOR THE SLOWING OF THE 10 CM FLUX DECAV. THIS REGION WAS NUMBERED 3731 (S03E 79). REGION 3717 (S05W58) HAS A RATHER TIGHT GRADIENT JUST BEHIND THE LEADER AND PLAGE FLUCTUATIONS ARE BEING REPORTED IN THAT AREA.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW. NONE OF THE DISK FEATURES APPEAR CAPABLE OF SIGNIFICANT ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. ALTHOUGH NO MAJOR IMPACT FROM YESTERDAYS FILAMENT DISAPPEARANCE IS EXPECTED, SOME INTENSIFICATION OF THE FIELD MAY OCCUR BY 14 MAY.

III. EVENT PROBABILITIES 12 MAY - 14 MAY

CLASS M. 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 MAY 130

PREDICTED 12-14 MAY 125/120/110

90-DAY MEAN 11 MAY 183

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 MAY 05/07

ESTIMATED AFR/AP 11 MAY 10/10

PREDICTED AFR/AP 12-14 MAY 08/10 - 14/15 - 18/15

SOLTERWARN

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