

HFUS 1 BOU 021300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 122A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 02 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/1200Z TO 02/1200Z: SOLAR ACTIVITY HAS CONTINUED LOW DURING THIS PERIOD. REGIONS 3715 (S12W90) AND 3714 (S18W02) HAVE PRODUCED THE ONLY EVENTS RECORDED DURING THE PAST 24 HOURS, THE LARGEST EVENT WAS A C4/SN FROM 3714 AT 01/2301UT. REGION 3714 HAS BEEN REPORTED STABLE, THIS PERIOD, HOWEVER IT STILL CONTAINS A BETA/GAMMA MAGNETIC CONFIGURATION. MINOR SURGING IS BEING OBSERVED AT SE05.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THE FORECAST PERIOD. REGION 3714 MAY PRODUCE AN ISOLATED M-CLASS EVENT HOWEVER ONLY SMALL C-CLASS EVENTS ARE EXPECTED. OLD ACTIVE LONGITUDES ARE DUE BACK TODAY. HOWEVER WITH NO MAJOR SURGE AREAS BEING REPORTED NO LARGE ACTIVE GROUPS ARE EXPECTED TODAY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE UNSETTLED UNTIL 05 MAY WHEN THE EFFECTS OF A SMALL CORONAL HOLE, NOW LOCATED AT CM, IS EXPECTED TO PRODUCE ACTIVE GEOMAGNETIC CONDITIONS.

III. EVENT PROBABILITIES 03 MAY-05 MAY

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 MAY 149

ESTIMATED 02 MAY 148

PREDICTED 03 MAY-05 MAY 145/145/150

90 DAY MEAN 01 MAY 196

V. GEOMAGNETIC A INDICES

OBSERVED AFR 30 APR 026 AP 01 MAY 025

ESTIMATED AFR 01 MAY 021 AFR/AP 02 MAY 014/018

PREDICTED AFR/AP 03 MAY-05 MAY 012/015-012/018-015/015

SOLTERWARN

BT

HFUS 3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 122B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 02 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200Z TO 02/2100Z: SOLAR ACTIVITY WAS MODERATE THIS PERIOD WITH REGION 3717 (S06E64) PRODUCING A M2/1B AT 1513Z. MINOR CENTIMETRIC BURSTS ACCOMPANIED THIS FLARE. THOUGH GROWING, REGION 3717 IS STILL A B-TYPE SUNSPOT GROUP BUT CONTAINS MIXED POLARITIES. REGION 3714 (S18W06) CONTINUES TO PRODUCE ONLY MINOR FLARES. HOWEVER, THE DELTA CONFIGURATION HAS REESTABLISHED ITSELF WITH NEW GROWTH IN THE CENTER OF THE SUNSPOT STRUCTURE. THE MAGNETIC COMPLEXITY OF THIS REGION IS FURTHER COMPLICATED BY THE EMERGENCE OF TRAILER POLARITY SPOTS AHEAD OF THE LARGE LEADER. THE SAC PEAK CALCIUM FILTERGRAM SHOWS PLAGE STRUCTURE ROTATING ON TO THE DISK NEAR SE11 AND NE25.

IB. SOLAR ACTIVITY FORECAST: WITH THE INCREASING GROWTH AND MAGNETIC COMPLEXITY IN REGIONS 3714 AND 3717, SOLAR ACTIVITY MAY APPROACH A SUSTAINED MODERATE LEVEL BEFORE THE END OF THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. MODERATELY UNSETTLED TO SLIGHTLY ACTIVE CONDITIONS ARE EXPECTED TO PREVAIL THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 03 MAY-05 MAY

CLASS M 25/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 MAY 145

PREDICTED 03 MAY-05 MAY 145/147/150

90 DAY MEAN 02 MAY 194

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 MAY 018/025

ESTIMATED AFR/AP 02 MAY 021/027

PREDICTED AFR/AP 03 MAY-05 MAY 012/015-012/018-012/015

SOLTERWARN

BT

HXUS BOU 022200

PREDM 02503 03004 03005

PREDX 00103 00104 00105

PREDP 00103 00104 00105

PCAFT 00103

TENCM 14503 14704 15005

AFRED 01203 01204 01205

AFAPF 01503 01804 01505

BT