

HFUS 1 BOU 301300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 120A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 30 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/1200Z TO 30/1200Z: SOLAR ACTIVITY HAS BEEN LOW. THERE HAVE BEEN NO MORE M-CLASS EVENTS SINCE THE M2/1B FLARE AT 29/1121Z. REGION 3714 (S18E26) HAS ACCOUNTED FOR HALF THE C-CLASS EVENTS OBSERVED TODAY, AND THE NORTHWEST COMPLEX OF REGIONS (NOW ABOUT 1 DAY FROM WEST LIMB TRANSIT) HAS ACCOUNTED FOR THE REST OF TODAY'S FLARES.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY WILL CONTINUE AT LOW LEVELS. THE 10.7 CM RADIO FLUX MAY REACH ITS LOWEST LEVELS FOR 1982 BEFORE ACTIVE SOLAR LONGITUDES RETURN AT THE EAST LIMB ON ABOUT 2 MAY.

II. GEOPHYSICAL SUMMARY AND FORECAST: GEOMAGNETIC CONDITIONS HAVE BEEN IN THE ACTIVE CATEGORY DURING THE PAST 24 HOURS. A GRADUAL RETURN TO UNSETTLED LEVELS IS EXPECTED SOON. HOWEVER, IT WILL PROBABLY BE AT LEAST A FEW DAYS BEFORE QUIET CONDITIONS ARE EXPERIENCED.

III. EVENT PROBABILITIES 01 MAY-03 MAY

CLASS M 30/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 APR 153

ESTIMATED 30 APR 145

PREDICTED 01 MAY-03 MAY 138/138/140

90 DAY MEAN 29 APR 199

V. GEOMAGNETIC A INDICES

OBSERVED AFR 28 APR 018 AP 29 APR 030

ESTIMATED AFR 29 APR 021 AFR/AP 30 APR 025/035

PREDICTED AFR/AP 01 MAY-03 MAY 014/012-014/020-012/015

SOLTERWARN

BT

HXUS BOU 301300

PREDM 03001 02002 02003

PREDX 00101 00102 00103

PREDP 00101 00102 00103

PCAFT 00101

TENCM 13801 13802 14003

AFRED 01401 01402 01203

AFAPF 01201 02002 01503

KKK 34333 23323 34444

BT

HFUS 3 BOU 302200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 120B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 30 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
30/1200Z TO 30/2100Z: SOLAR ACTIVITY HAS BEEN LOW. NO
SIGNIFICANT FLARES HAVE OCCURRED. REGION 3714 (S18E21) IS AGAIN
GROWING AND MIXED POLARITIES ARE ONCE AGAIN EVIDENT, THIS TIME
IN THE CENTRAL PORTION WHERE A WEAK DELTA MAY BE FORMING. 3714
HAS BECOME A MODERATE SIZE D GROUP. REGIONS IN THE NORTHWEST
HAVE PRODUCED LITTLE ACTIVITY. OLD FIELDS ARE BECOMING VISIBLE
AT THE EAST LIMB AND A SMALL SURGING AREA HAS BEEN OBSERVED AT
SE05. A SMALL REGION EMERGED AT S14W21 AND WAS NUMBERED 3716.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW.
3714 DOES NOT APPEAR CAPABLE AS YET OF PRODUCING FREQUENT CLASS
M FLARES. HOWEVER, SHOULD CURRENT TRENDS CONTINUE, THAT LEVEL
OF FLARE PRODUCTION COULD BE REACHED WITHIN 1-2 DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD
REMAINS AT ACTIVE (BORDERING ON MINOR STORM) LEVELS. ISEE DATA
INDICATE THIS DISTURBANCE IS RELATED TO A CORONAL HOLE HIGH
SPEED STREAM. THIS STREAM SHOULD CEASE IMPACTING THE EARTH ON 1
MAY AND THE FIELD SHOULD RETURN TO UNSETTLED TO SLIGHTLY ACTIVE
LEVELS FOR THE DURATION OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 01 MAY-03 MAY

CLASS M 30/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 APR 149

PREDICTED 01 MAY-03 MAY 138/138/140

90 DAY MEAN 30 APR 198

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 APR 025/030

ESTIMATED AFR/AP 30 APR 028/035

PREDICTED AFR/AP 01 MAY-03 MAY 014/018-012/020-012/015

SOLTERWARN

BT

HXUS BOU 302200

PREDM 03001 02002 02003

PREDX 00101 00102 00103

PREDP 00101 00102 00103

PCAFT 00101

TENCM 13801 13802 14003

AFRED 01401 01202 01203

AFAPF 01801 02002 01503

BT