

HFUS 1 BOU 031300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 123 A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 03 MAY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

02/1200UT TO 03/1200UT:

SOLAR ACTIVITY HAS REMAINED LOW. REGION 3088 (N17E49) PRODUCED THE LARGEST FLARE, A C3/1N AT 02/1729Z. NEARLY ALL OTHER FLARES OCCURRED IN REGIONS 3079 (N07E23) AND 3080 (N16E28). CURRENTLY, THERE ARE SIX REGIONS WITH SUNSPOT STRUCTURE IN THE NE QUADRANT. CULGOORA REPORTED STRONG TYPE III BURSTS HIGH ABOVE EAST LIMB; THESE MAY BE INDICATIVE OF THE EXISTENCE OF OLD ACTIVE REGIONS 3035/3038.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REACH MODERATE LEVELS BY THE END OF THE FORECAST PERIOD. OLD ACTIVE REGIONS 3035 AND 3038 ARE DUE BACK EARLY AND LATE ON 05 MAY RESPECTIVELY.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. GENERALLY UNSETTLED CONDITIONS ARE EXPECTED THROUGH THE NEXT THREE DAYS.

III. EVENT PROBABILITIES: 04 - 06 MAY

CLASS M 15/25/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 02 MAY 190

ESTIMATED 03 MAY 197

PREDICTED 04-06 MAY 205/215/225

90 DAY MEAN 02 MAY 211

V. GEOMAGNETIC A INDICES

OBSERVED AFR 01 MAY 13 AP 02 MAY 10

ESTIMATED AFR 02 MAY 09 AFR/AP 03 MAY 08/15

PREDICTED AFR/AP 04-06 MAY 10/15 10/08 10/07

SOLTERWARN

BT

HFUS 13 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 123B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200 UT 03 MAY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/1200 UT
TO 03/2200 UT: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY AN
OCCASIONAL SUBFLARE BEING REPORTED. REGIONS 3079 (N07E16) AND
3080 (N16E20) ARE SLOWLY INCREASING IN COMPLEXITY AND ARE
RESPONSIBLE FOR MOST OF THE ACTIVITY BEING REPORTED. REGION 3079
IS NOW A BETA-GAMMA AND 3080 MAY WELL HAVE A DELTA CONFIGURATION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO SLOWLY
INCREASE AS A RESULT OF INCREASING COMPLEXITY IN REGIONS 3079
AND 3080 AIDED BY THE RETURN OF OLD REGIONS 3035 AND 3038.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET TO UNSETTLED AND NO CHANGE IS EXPECTED.

III. EVENT PROBABILITIES 04 MAY - 06 MAY

CLASS M 15/25/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 MAY 205

PREDICTED 04-06 MAY 213/220/223

90-DAY MEAN 03 MAY 211

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 MAY 07/10

ESTIMATED AFR/AP 03 MAY 08/15

PREDICTED AFR/AP 04-06 MAY 10/15 - 10/08 - 10/07

SOLTERWARN

BT