

HFUS 1 BOU 261300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 146A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 26 MAY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

25/1200UT TO 26/1200UT:

SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. OCCASIONAL SUBFLARES HAVE BEEN REPORTED FROM REGIONS 3121 (N04E12), 3125 (N15E19), 3129 (S04E54) AND 3113 (S24W84). REGION 3121 REMAINS THE MOST INTERESTING REGION ON THE VISIBLE DISK WITH ITS COMPLEX MAGNETIC STRUCTURE AND GENERAL PATTERN OF GROWTH. REGION 3123 (N18W17) IS ALSO GROWING, AND BOTH 3123 AND 3121 ARE FLUCTUATING WITH BRIGHT POINTS AND AFS. REGION 3113 IS STABLE BUT CAPABLE OF C-CLASS FLARES.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE LOW BUT WITH THE INCREASING POSSIBILITY OF ISOLATED SIGNIFICANT FLARES FROM 3121. PREVIOUSLY ACTIVE REGIONS ARE EXPECTED TO RETURN DURING THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO SLIGHTLY ACTIVE FOR MOST OF THE PAST 24 HOURS. HOWEVER, THE FIELD HAS BEEN QUIET FOR THE PAST 6 HOURS AND IS EXPECTED TO BE QUIET TO OCCASIONALLY UNSETTLED FOR THE NEXT 36 TO 48 HOURS. ACTIVE CONDITIONS SHOULD THEN RESUME IN RESPONSE TO AN EQUATORIAL CORONAL HOLE AT CENTER DISK ON 25 MAY.

III. EVENT PROBABILITIES: 27 - 29 MAY

CLASS M 30/35/40

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 25 MAY 173

ESTIMATED 26 MAY 170

PREDICTED 27-29 MAY 170/175/180

90 DAY MEAN 25 MAY 212

V. GEOMAGNETIC A INDICES

OBSERVED AFR 24 MAY 20 AP 25 MAY 37

ESTIMATED AFR 25 MAY 20 AFR/AP 26 MAY 12/15

PREDICTED AFR/AP 27-29 MAY 10/10 15/15 18/20

SOLTERWARN

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HFUS 3 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 146B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200 UT 26 MAY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/1200 UT TO 26/2200 UT: SOLAR ACTIVITY HAS BEEN LOW DURING THIS PERIOD.

REGION 3121 (N04E06) PRODUCED TWO C-CLASS EVENTS, A C1/SF AT 1351 UT AND A C2/SN AT 1731 UT. REGION 3123 (N18W20) HAD A C1/SN AT 1816 UT. FOUR NEW REGIONS TODAY 3133 (S08E01), 3134 (N16E79), 3135 (N18W06) AND 3136 (S13W04) ALL SIMPLE GROUPS. REGION 3134 IS OLD REGION 3080 WHICH PRODUCED 1 X-CLASS EVENT LAST ROTATION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET THIS PERIOD. THE FIELD IS EXPECTED TO BE UNSETTLED DURING THE NEXT 24 HOURS THEN ACTIVE FOR THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 27 MAY - 29 MAY

CLASS M 30/35/40

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 MAY 169

PREDICTED 27-29 MAY 170/175/180

90-DAY MEAN 26 MAY 211

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 MAY 24/37

ESTIMATED AFR/AP 26 MAY 10/15

PREDICTED AFR/AP 27-29 MAY 10/10 - 15/15 - 18/20

SOLTERWARN

BT