

HFUS 1 BOU 21300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 143A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 23 MAY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

22/1200UT TO 23/1200UT:

SOLAR ACTIVITY HAS BEEN LOW. REGION 3125 (N14E62) PRODUCED THE LARGEST FLARE ON THE PERIOD, A C6/IN AT 23/0325UT. THIS IS A SMALL GROWING, BUT MAGNETICALLY SIMPLE REGION. REGION 3123 (N17E25) CONTINUES A RAPID GROWTH AND DEVELOPEMENT, MAKING IT THE MOST INTERESTING REGION ON THE DISK ALTHOUGH IT HAS NOT PRODUCED ANY SIGNIFICANT FLARES. REGION 3113 (S25W39) REMAINS STABLE WITH ONLY MINOR CHANGES AND NO FLARES OBSERVED TODAY. REGION 3112 (N16W75) CONTINUES TO DECAY SLOWLY. TWO VERY SMALL REGIONS DEVELOPED ON THE DISK, REGION 3126 (S29W13) AND 3127 (N30E00). ALL OTHER REGIONS ARE QUIET.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW WITH ONLY REGION 3113 CAPABLE OF SIGNIFICANT EVENTS.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24 HOURS. UNSETTLED TO QUIET CONDITIONS ARE EXPECTED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES: 24-16 MAY

CLASS M 30/20/20

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 22 MAY 168

ESTIMATED 23 MAY 165

PREDICTED 24-26 MAY 162/160/160

90 DAY MEAN 22 MAY 214

V. GEOMAGNETIC A INDICES

OBSERVED AFR 21 MAY 20 AP 22 MAY 11

ESTIMATED AFR 22 MAY 10 AFR/AP 23 MAY 15/25

PREDICTED AFR/AP 24-26 MAY 15/15 10/15 08/10

SOLTERWARN

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HFUS 3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 143B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 23 MAY 81

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/1200UT
TO 23/2200UT.

SOLAR ACTIVITY HAS REMAINED AT LOW LEVELS. THE LARGEST FLARE OF THE
PERIOD WAS A C4/SN FROM REGION 3113 (S25W48).

THERE HAS BEEN LITTLE CHANGE IN THE ACTIVE REGIONS ON THE SUN
DURING THE LAST 24 HOURS.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY WILL REMAIN LOW. REGION 3113 WILL PROBABLY BE THE
MOST ACTIVE REGION, BUT ONLY SUBFLARE ACTIVITY IS EXPECTED.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE AND THESE
CONDITIONS ARE FORECAST TO CONTINUE FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES: 24 - 26 MAY

CLASS M 30/20/20

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED	23 MAY	156
PREDICTED	24-26 MAY	152/150/150
90 DAY MEAN	23 MAY	214

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP	22 MAY	09/11
ESTIMATED AFR/AP	23 MAY	15/25
PREDICTED AFR/AP	24-26 MAY	15/15 10/15 08/10

SOLTERWARN

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