

HFUS 1 BOU 051300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 278A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 05 OCT 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/1200Z
TO 05/1200Z:

SOLAR ACTIVITY HAS REMAINED LOW DURING THE PAST 24 HOURS, WITH ONLY CLASS C XRAY EVENTS AND SUBFLARES REPORTED. THERE ARE NINETEEN SMALL REGIONS ON THE DISK AND MOST ARE STABLE OR DECLINING. REGIONS 3375 (N13W23) AND 3377 (N09E24) HAVE SLIGHTLY COMPLEX MAGNETIC STRUCTURE AND CONTAIN THE LARGEST SPOT GROUPS WITH CLASS/ AREA OF D/200 AND D/160 RESPECTIVELY. THREE SMALL REGIONS 3379 (S05W01), 3380 (S16W50) AND 3386 (N20E22) ARE REPORTED GROWING RAPIDLY WITH BRIGHT POINTS AND PLAGE FLUCTUATIONS.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A LOW LEVEL WITH ONLY MINOR FLARE ACTIVITY AND ISOLATED CLASS M EVENTS LIKELY FROM THE REGIONS CURRENTLY ON THE DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST:

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

III. EVENT PROBABILITIES 06 - 08 OCT

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 04 OCT 191

ESTIMATED 05 OCT 197

PREDICTED 06-08 OCT 197/200/203

90 DAY MEAN 04 OCT 213

V. GEOMAGNETIC A INDICES

OBSERVED AFR 03 OCT 29 AP 04 OCT 15

ESTIMATED AFR 04 OCT 18 AFR/AP 05 OCT 10/15

PREDICTED AFR/AP 06-08 OCT 10/15 12/15 12/15

SOLTERWARN

BT

HFUS 3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 278B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 05 OCTOBER 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/1200Z TO 05/2100Z: SOLAR ACTIVITY HAS CONTINUED AT LOW LEVELS. IT HAS NOW BEEN 72 HOURS SINCE THE LAST M-CLASS EVENT, AND THE SUN PRODUCED ONLY A FEW C1 AND C2 EVENTS DURING THE LAST 9 HOURS. REGIONS 3375 (N13W32) AND 3377 (N08E19) ARE THE ONLY REGIONS SHOWING ANY SORT OF MAGNETIC OR SPOT COMPLEXITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY WILL REMAIN LOW. THE EAST LIMB HAS BEEN QUIET.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED, WITH ONLY TWO'S AND THREE'S FOR THE BOULDER K-INDEX. NO CHANGE FROM THIS PATTERN IS EXPECTED.

III. EVENT PROBABILITIES 06 OCTOBER - 08 OCTOBER

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 OCTOBER 199

PREDICTED 06-08 OCTOBER 197/194/191

90-DAY MEAN 05 OCTOBER 213

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 OCTOBER 17/15

ESTIMATED AFR/AP 05 OCTOBER 10/15

PREDICTED AFR/AP 06-08 OCTOBER 10/15 - 12/12 - 12/12

SOLTERWARN

BT