

HFUS 3 BOU 05 13 00

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 2794

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 05 OCT 1980

IA. SOLAR ACTIVITY HAS BEEN EXTREMELY LOW. OF THREE NEW
REGIONS NUMBERED SINCE THE PREVIOUS 1200Z FORECAST, REGION 2717
(N14E77) IS CLEARLY A RETURN OF AN OLD REGION PRODUCING
ACTIVITY LAST ROTATION. OLD REGION 2665 FLARED TO M CLASS
XRAY LEVELS THEN. OTHER REGIONS APPEAR STABLE OR DECLINING.

IB. REGION 2697 (S17W64) HAS SIMPLIFIED BUT REMAINS CAPABLE
OF LOW LEVEL ACTIVITY. REGION 2701 HAS STABILIZED AND REMAINS MOST
LIKELY REGION TO SHOW ACTIVITY. OUTPUT FROM THIS REGION HAS
DECLINED DRAMATICALLY HOWEVER. THE POTENTIAL OF REGION 2717
IS UNCLEAR. IT MAY HAVE BEEN THE SOURCE OF RECENT SLOW RISING,
UNASSOCIATED XRAY. IT IS THE MOST INTERESTING OF THE NEW REGIONS.

II. THE GEOMAGNETIC FIELD HAS CONTINUED ACTIVE AT MINOR STORM
LEVELS. THIS ACTIVITY IS EXPECTED TO SHOW DECLINE WITHIN THE
NEXT FEW HOURS, REACHING UNSETTLED LEVELS BEFORE THIS TIME ON
06 OCT.

III. EVENT PROBABILITIES: 06 - 08 OCT

CLASS M 40/30/30

CLASS X 01/01/01

PROTON 01/01/01

IV. OTTAWA 10.7 FLUX

OBSERVED 04 OCT 175

ESTIMATED 05 OCT 175

PREDICTED 06 - 08 OCT 173/171/169

90 DAY MEAN 04 OCT 181

V. GEOMAGNETIC A INDICES

OBSERVED AFR 03 OCT 03 AFR 04 OCT 23

ESTIMATED AFR 04 OCT 19 AFR/AP 05 OCT 27/27

PREDICTED AFR/AP 06 OCT - 08 OCT 18/16 12/12 10/10

EFFECTIVE 1 OCT 1980 BEGAN OPERATING 24 HRS/DAY AND WILL ISSUE

TWO DAILY FORECASTS, ONE AT 1200Z AND THE OTHER AT 2200Z. THE 1200Z

FORECAST WILL EMPHASIZE DETAILS ON SOLAR ACTIVE REGION

ANALYSIS. THE 2200Z FORECAST WILL DISCUSS MAJOR SOLAR

GEOPHYSICAL EVENTS.

SOLTERWARN

BT

HFUS 1 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 279B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 05 OCTOBER 1980

IA. SOLAR ACTIVITY HAS CONTINUED LOW DURING THE PAST 10 HOURS. REGIONS 2701 (N13W30), 2697 (S19W77) AND 2705 (N07W87) HAVE PRODUCED SUB FLARES TODAY, X-RAY REMAINED BELOW C2 LEVELS DURING THE PERIOD. NEW REGIONS TODAY 2718 (N17E12), 2719 (N33W39), 2720 (S31E76) AND 2721 (S12E76). REGION 2720, C-TYPE, HAS HAD SEVERAL SURGES REPORTED.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE LEVELS. THE FIELD IS EXPECTED TO BE UNSETTLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 06 OCTOBER - 08 OCTOBER

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 OCTOBER 183

PREDICTED 06-08 OCTOBER 182/180/178

90-DAY MEAN 05 OCTOBER 182

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 OCTOBER 17/23

ESTIMATED AFR/AP 05 OCTOBER 17/24

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

SOLTERWARN

BT