

HFUS 3 BOU 051300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDP 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 (N 14E 77) 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 (S 17W 64) 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 4/3/0/3/0

CLASS X 0/1/0/1/0

PROTON 0/1/0/1/0

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 INDICES

OBSERVED AFR 03 OCT 03 AP 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.

SOLIERWARN

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

I A. SOLAR ACTIVITY HAS CONTINUED LOW DURING THE PAST 10 HOURS.
REGIONS 2701 (N 13W 30), 2697 (S 19W 77) AND 2705 (N 07W 87) HAVE
PRODUCED SUB FLARES TODAY. X-RAY REMAINED BELOW C2 LEVELS
DURING THE PERIOD. NEW REGIONS TODAY 2718 (N 17E 12), 2719
(N 33W 39), 2720 (S 31E 75) AND 2721 (S 12E 76). REGION 2720, C-TYPE,
HAS HAD SEVERAL SURGES REPORTED.

I B. 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 40/4 0/4 0

CLASS X 01/0 1/0 1

PREDICTED 01/0 1/0 1

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 ALINDICES

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