

HFUX 3 B011 061305

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 280A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 06 OCT 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. THE LARGEST EVENTS OBSERVED WERE CLASS C-6 XRAY BURST AND ONLY TWO OF THESE OCCURRED. THE FIRST WAS FROM REGION 2705 (N07W90) AT 060124Z (MAX) AND WAS ASSOCIATED WITH A SUBNORMAL FLARE. THE SECOND OCCURRED AT 060858Z (MAX); HAD NO OPTICAL CORRELATION BUT APPEARED TO BE THE MORE ENERGETIC OF THE TWO AS SHORTWAVE FADES TO 18 MHZ AND SMALL DISCRETE FREQUENCY BURSTS ACCOMPANIED THIS EVENT. REGIONS 2713 (S09E26) AND 2717 (N15E66) APPEAR TO BE THE MOST INTERESTING REGIONS ON THE DISK; REGION 2713 BECAUSE OF ITS FLARE ACTIVITY AND REGION 2717 BECAUSE OF ITS SIZE. REGION 2717 (POSSIBLY AN E TYPE GROUP) IS PROBABLY THE RETURN OF OLD REGION 2665. REGION 2701 (N13W37) IS SLOWLY DECAYING AND HAS BEEN FLARE VOID THE PAST 18 TO 20 HOURS EXCEPT FOR A SUBFAINT FLARE AT 010725Z (MAX). SMALL SPOTS ARE DEVELOPING AND DYING RAND ONLY ACROSS THE DISK.

IB. SOLAR ACTIVITY SHOULD CONTINUE LOW BUT THE POTENTIAL FOR AN ISOLATED CLASS M IS BECOMING MORE LIKELY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE. A GRADUAL DECLINE IS EXPECTED WITH GENERALLY UNSETTLED CONDITIONS BECOMING MORE PREVALENT.

III. EVENT PROBABILITIES: 07 - 09 OCT

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 05 OCT 183

ESTIMATED 06 OCT 188

PREDICTED 07 - 09 OCT 189/190/190

90 DAY MEAN 05 OCT 182

V. GEOMAGNETIC A INDICES

OBSERVED AFR 04 OCT 17 AP 05 OCT 26

ESTIMATED AFR 05 OCT 20 AFR/AP 06 OCT 15/15

PREDICTED AFR/AP 07 - 09 OCT 14/12 12/10 11/17

SOLTERWARN

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HFUS 1 50U 062200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 2803

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 06 OCTOBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. THE LARGEST X-RAY EVENT, C7 AT 0858 UT MAXIMUM, HAD MINOR RADIO ENHANCEMENT ACROSS THE SPECTRUM BUT WAS UNOBSERVED OPTICALLY. REGION 2713 (S08E18) PRODUCED SEVERAL SUBFLARES WHICH WERE ASSOCIATED WITH STRONG TYPE III BURSTS. THE LARGEST OF THESE, A C5/SN, MAXED AT 0421 UT. AS REGION 2717 (N15E62) ROTATES FURTHER INTO VIEW, IT CAN BE SEEN AS AN EXTREMELY COMPLEX REGION CONTAINING A MAGNETIC DELTA IN THE NORTHERN LEADER SPOT. HOWEVER, ONLY 3 SUBFAINT FLARES WERE OBSERVED FROM THERE SO FAR TODAY. THREE NEW REGIONS WERE NUMBERED. THEY ARE 2722 (S24E46), A B-TYPE GROUP; 2723 (N10E26), AN A-TYPE SPOT, AND 2724 (N11E53), A B-TYPE GROUP GROWING TO THE EAST OF 2717.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE THROUGHOUT THE FORECAST PERIOD PRINCIPALLY BASED ON THE FLARE POTENTIAL OF 2717.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED WITH SOME ACTIVE PERIODS FOR THE LAST 24 HOURS. ACTIVITY IS EXPECTED TO REMAIN UNSETTLED BUT DIMINISHING THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 07 OCTOBER - 09 OCTOBER

CLASS M 5 0/5 0/5 0

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 OCTOBER 189

PREDICTED 07-09 OCTOBER 195/200/200

90-DAY MEAN 06 OCTOBER 182

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 OCTOBER 19/26

ESTIMATED AFR/AP 06 OCTOBER 16/16

PREDICTED AFR/AP 07-09 OCTOBER 14/12 - 12/10 - 11/10

EFFECTIVE 1 OCT 1980, NOAA-SESC/AFGWC 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.

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