HEUS 3 BOU 08130
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 282A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1200UT 08 OCT 1980
IA. SOLAR ACTIVITY WAS AT MODERATE LEVELS DURING THE PAST 24 HOURS WITH SIX CLASS M XRAY BURSTS BEING OBSERVED. THE LARGEST OF THESE BURSTS WAS AN M5 FROM REGION 2717 (N15E43) AT 2310Z (MAX) ON THE 7TH. THE OPTICAL CLASS OF THIS EVENT WAS IMPORTANCE 2B AND BOTH SWEEP FREQUENCY (TYPE IV) AND DISCRETE FREQUENCY (750 F.U. AT 8800 MHZ MAX) BURST ACCOMPANIED THIS FLARE. REGION 2717, WHICH WAS RESPONSIBLE FOR THREE OTHER LESSER MAGNITUDE "M" CLASS EVENTS, IS STILL THE MOST COMPLEX REGION ON THE DISK. ITS LARGE "F" TYPE SPOT GROUP IS A BETA GAMMA DELTA MAGNETICALLY AND ITS H-ALPHA PLAGE IS COMPOSED OF SEGMENTED RIBBONS OF VARIOUS BRIGHTNESSES. THE NEUTRAL LINE DISPLAYS SEVERAL SHARP KINKS, AN ADF IS OCCASIONALLY BEING OBSERVED AND SUBFLARES ALONG WITH POINT BRIGHTENINGS ARE COMMON PLACE. OBSERVATIONS OF REGION 2725 (S10E69) ARE STILL AFFECTED BY FORESHORTENING BUT HAVING PRODUCED THE OTHER TWO CLASS M EVENTS, IT IS REASONABLE TO ASSUME THAT 2725 ALSO POSESSES A CERTAIN DEGREE OF COMPLEXITY. IT IS PRODUCING SUBFLARES, POINT BRIGHTENINGS AND IS DESCRIBED AS A MAGNETIC BETA TYPE WITH A CLASS DKI SPOT GROUP. REGION 2726 (S14E70) CLOSELY RESEMBLES REGION 2725 ALTHOUGH NOT AS LARGE AND APPARENTLY NOT AS DYNAMIC. HOWEVER, AN ADF, PLAGE FLUCTUATIONS AND SOME SPOT GROWTH WOULD SUGGEST THAT THIS REGION BEARS WATCHING. THE REMAINING DISK REGIONS ARE SHOWING LITTLE CHANGE.
IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT MODERATE LEVELS.
II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. DISTURBED CONDITIONS TO ACTIVE LEVELS ARE EXPECTED LATE TODAY OR EARLY ON 9 OCT AS A RESULT OF A CORONAL HOLE.
III. EVENT PROBABILITIES: 09 OCT - 11 OCT

CLASS M	90/90/90
CLASS X	10/15/20
PROTON	05/05/10
PCAF	GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED	07 OCT	204
ESTIMATED	08 OCT	215
PREDICTED	09-11 OCT	220/232/240
90 DAY MEAN	07 OCT	183

V. GEOMAGNETIC A INDICES

OBSERVED AFR	06 OCT	16	AP	07 OCT	13
ESTIMATED AFR	07 OCT	10	AFR/AP	08 OCT	10/10
PREDICTED AFR/AP	09-11 OCT	16/16	18/17	10/10	

SOLTERWARN
PT

HFUS 1 BOU 082200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO
SDF NUMBER 282B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 08 OCTOBER 1980
IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. THE LARGEST EVENT WAS AN M5/2B FLARE FROM REGION 2717 (N15E37) WHICH MAXED AT 2310 UT ON 07 OCTOBER. THE NEXT LARGEST WAS AN M3/1B FLARE FROM REGION 2725 (S07E53) WHICH MAXED AT 2034 UT ON 08 OCTOBER. THREE OTHER M-CLASS FLARES WERE OBSERVED ON 08 OCTOBER FROM REGIONS 2726 (S12E52), 2717 (N15E37) AND 2701 (N13W69). REGION 2717 REMAINED COMPLEX AND RAPID GROWTH WAS SEEN IN 2724 (N12E24) WHICH IS INTERACTING WITH 2717. REGION 2725 AND 2726 ARE DIFFICULT TO SEPARATE IN H-ALPHA AND WHITE LIGHT BUT ARE CLEARLY DIFFERENT FLARE CENTERS. ONE NEW REGION WAS ADDED TODAY. IT IS REGION 2728 (S19W05).
IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE OWING TO THE SEVERAL REGIONS WITH SIGNIFICANT TO MAJOR FLARE POTENTIAL.
II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED FOR THE PAST 24 HOURS. GEOMAGNETIC LEVELS ARE EXPECTED TO INCREASE TO NEAR ACTIVE LEVELS FOR THE NEXT TWO DAYS OWING TO A SOUTHERN CORONAL HOLE. ON THE THIRD DAY, POTENTIAL EFFECTS OF A NORTHERN CORONAL HOLE SHOULD MAINTAIN UNSETTLED TO ACTIVE CONDITIONS.
III. EVENT PROBABILITIES 09 OCTOBER - 11 OCTOBER

CLASS M	90/90/90
CLASS X	10/15/20
PROTON	05/10/10
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	08 OCTOBER 212
PREDICTED	09-11 OCTOBER 220/225/220
90-DAY MEAN	08 OCTOBER 183

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP	07 OCTOBER 08/13
ESTIMATED AFR/AP	08 OCTOBER 12/07
PREDICTED AFR/AP	09-11 OCTOBER 16/16 - 18/17 - 15/15

SOLTERWARN
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