

HFUS3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 315

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 10 NOV 1984

I.A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/2100 TO 10/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 4592 (N16E03) PRODUCED TWO CLASS M FLARES THIS PERIOD. THE FIRST EVENT OCCURRED AT 0437Z AND WAS AN M2/1B. THE SECOND ONE OCCURRED AT 2010Z AND WAS AN M3/1B FLARE. BOTH OF THESE EVENTS HAD ASSOCIATED TYPE II RADIO BURSTS. THE FIRST EVENT ALSO HAD A TYPE IV RADIO BURST. AND THE SECOND EVENT HAS INCOMPLETE BURST DATA, SO AN ASSOCIATED TYPE IV BURST CAN NOT BE CONCLUDED TO HAVE ACCOMPANIED THAT EVENT AT THIS TIME. REGION 4592 HAS A D-TYPE SPOT GROUP WHICH HAS DOUBLED IN AREA AND SPOT NUMBER SINCE THE LAST REPORT. IT STILL HAS A BETA MAGNETIC CONFIGURATION. THERE WAS ONE NEW REGION NUMBERED TODAY AS REGION 4594 (S15E17). THIS REGION HAS A SIMPLE A-TYPE SPOT GROUP.

I.B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGION 4592 REMAINS THE OBVIOUS REGION TO WATCH.

II.A. GEOPHYSICAL ACTIVITY SUMMARY FROM 09/2100Z TO 10/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE.

II.B. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE ON THE FIRST TWO DAYS OF THE FORECAST PERIOD WITH INTERMITTENT PERIODS OF MINOR STORM POSSIBLE. ON THE 13TH OF NOVEMBER ACTIVE TO MINOR STORM LEVELS ARE FORECAST BASED ON THE FLARE ACTIVITY THAT HAS COME OUT OF REGION 4592.

III. EVENT PROBABILITIES 11 NOV-13 NOV

CLASS M 40/20/15

CLASS X 05/01/01

PROTON 05/01/01

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 NOV 077

PREDICTED 11 NOV-13 NOV 080/080/079

90 DAY MEAN 10 NOV 077

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 NOV 012/011

ESTIMATED AFR/AP 10 NOV 013/014

PREDICTED AFR/AP 11 NOV-13 NOV 019/020-019/020-030/035

SOLTERWARN

BT