

NNNN0403

NNNN0403

NNNN

KMSC

HAUS BOU 230400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 788A ISSUED 0400Z 23 OCT 1970

ONLY CLASS C EVENTS ARE EXPECTED DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY CONTINUES TO BE DEPRESSED. THE MOST ENERGETIC EVENT THE PAST 11 HOURS WAS A CLASS C6 SUBFLARE AT 22/1809Z. THE N14E30 REGION IS APPARENTLY INCREASING IN MAGNETIC COMPLEXITY WITH A DELTA CONFIGURATION NOW PROBABLE. A C-TYPE SPOTGROUP WITH BRIGHT AND FLUCTUATING PLAGE HAS NOW CLEARED THE EAST LIMB NEAR N14; THIS REGION IS ALSO POSSIBLY MAGNETICALLY COMPLEX. ANOTHER REGION ON THE EAST LIMB NEAR N16 IS NOT YET FULLY ONTO THE VISIBLE DISK. DURING THE PAST ELEVEN HOURS THE GEOMAGNETIC FIELD HAS BEEN MILDLY UNSETLED WITH K-INDICES OF 2 TO 3 AT MID LATITUDES AND 4 TO 5 AT HIGH LATITUDES.

B. THE 3-DAY OUTLOOK REMAINS UNCHANGED. OVERALL ACTIVITY IS EXPECTED TO REMAIN NEAR ITS CURRENT LOW LEVEL. THE A-INDEX AT FREDERICKSBURG FOR 23 OCT SHOULD EXCEED 10 WITH AN UPPER LIMIT OF 17.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 23 OCT/0400Z ENDING 26 OCT/0400Z.

CLASS M OR GREATER 35/35/30

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 22/1700Z AND 22/2000Z WERE 136 AND 143 RESPECTIVELY.

SOLTERWARN

SPAN

BT

HAUS BOU 231715

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 788B ISSUED 1700Z 23 OCT 1970

ANTICIPATED ACTIVITY SHOULD NOT EXCEED CLASS C DURING THE
13-HOUR INTERVAL BETWEEN FORECASTS.

A. A SIGNIFICANT CONTRIBUTION TO THE BACKGROUND LEVEL OF FLARES IS BEING MADE BY THE TWO NE CENTERS. THE N18E78 GROUP HAS THE BRIGHTER PLAGE WHILE THE FOLLOWER-A DOMINANT N14E67 REGION HAS A WELL DEFINED AND NEARLY INCIRCLING FILAMENT. BOTH FEATURES ARE LOCATED IN THE 240 DEGREE CARRINGTON LONGITUDE SECTOR (ONE OF THE TWO ACTIVE BANDS) AND EACH MAY BE A BETA-GAMMA IN MAGNETIC CONFIGURATION. A TYPE I RADIO NOISE STORM ON THE BOULDER 184 MHZ RADIOMETER HAS BEEN IN EVIDENCE SINCE SUNRISE. IT IS DIFFICULT TO ASSOCIATE THIS SPUTTERING TYPE OF DEKAMETRIC EMISSION WITH A PARTICULAR SPOT GROUP. YESTERDAY'S SHORT-LIVED GEOMAGNETIC DISTURBANCE PROBABLY MARKED THE PASSAGE OF AN ERODING SECTOR BOUNDARY. A SUB FR FOR 23 OCT WILL BE ABOUT 17.

B. THE 9.1CM BRIGHTNESS TEMPERATURE, FE XIV (5303A) EMISSION AND PIONEER 7 PROTON COUNTING RATES OF THE ORDER OF 1 MEV SUPPORT THE IMPLICATIONS FROM OPTICAL OBSERVATION, VIZ, THAT THE TWO NE FEATURES ARE IN AN EARLY DEVELOPMENT STAGE. ENERGETIC FLARES ARE EXPECTED FROM ONE OR BOTH OF THESE REGIONS IN ABOUT A2 DAYS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 23 OCT/1700Z ENDING 26 OCT/1700Z.

CLASS M OR GREATER 35/45/55

CLASS X 01/01/05

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUX FOR 23/1400Z WAS 151. PREDICTED 10.7 CM FLUX FOR 24-26 OCT IS 156/152/151.

E. MAGNETIC A-FREDERICKSBURG FOR 22 OCT WAS 13. FOR 23 OCT ABOUT 17. PREDICTED AP FOR 24-26 OCT, 10/07/10.

SOLTERWARN

SPAN

BT