

NNNN

KBOU

HAUS BOU 200400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 110A ISSUED 0400Z 20 APRIL 1971

CLASS C ACTIVITY IS EXPECTED AND AN OCCASIONAL CLASS M FLARE IS PROBABLE DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS INCREASED A LITTLE DURING THE PAST 24 HOURS. THE REGIONS N20W15 AND S05W41 HAVE BOTH SHOWN SPOT GROWTH AND DEVELOPMENT DURING THE PAST 11 HOURS. THE NEW REGION AT N19W78 HAS SHOWN MODERATE GROWTH AND HAS BRIGHT PLAGE. A SB FLARE OBSERVED 20/0055Z AT N19W17 WAS CLASS M7. THE REST OF THE DISK HAS BEEN QUIET. THE GEOMAGNETIC FIELD IS QUIET.

B. CLASS C FLARES CAN BE EXPECTED AND AN OCCASIONAL CLASS M FLARE IS PROBABLE FROM REGIONS N20W15 AND S05W41. IF REGION N19W78 CONTINUES TO DEVELOP A CLASS M FLARE IS PROBABLE BEFORE IT PASSES THE WEST LIMB. THE GEOMAGNETIC FIELD WILL BE QUIET WITH SHORT PERIODS OF MINOR DISTURBANCE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 20 APRIL/0400Z ENDING 23 APRIL/0400Z.

~~C40860M40R~~ GREATER

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 19/1700Z AND 19/2000Z WERE 138 AND 140 RESPECTIVELY.

SOLTERWARN

SPAN

BT

NNNN

XBOU

HAUS BOU 201700

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 110B ISSUED 1700Z 20 APRIL 1971

OCCASIONAL CLASS M FLARES EXPECTED DURING THE NEXT 11 HOURS.

A. A CLASS X3, 1B/2N, FLARE BEGAN AT 20/0511Z LOCATION N19W21.

A MAJOR RADIO BURST ACCOMPANIED THE FLARE THAT PEAKED AT THE HIGH END OF THE FREQUENCY SPECTRUM. ALSO MAJOR SID EFFECTS WERE EXPERIENCED DURING THE FLARE. THE SAME REGION PRODUCED A M1, SN, FLARE AT 0900Z. THE BASIC STRUCTURE OF THE REGION APPEARS TO BE TWO OVERLAPING BIPOLE GROUPS GIVING A MAGNETIC BETA-GAMMA CONFIGURATION. RECENT OBSERVATORY REPORTS INDICATE SOME DECAY AND FRAGMENTATION OF THE CENTRAL SPOTS. PLAGUE IS COMPACT AND FLUCTUATING. NO PARTICLES HAVE BEEN DETECTED FROM ANY OF THE RECENT FLARES.

B. SOLAR ACTIVITY SHOULD CONSIST OF OCCASIONAL CLASS M FLARES FROM THE N19W24 REGION. ANOTHER CLASS X EVENT IS CERTAINLY A STRONG POSSIBILITY IN THE NEXT 72 HOURS. A MINOR GEOMAGNETIC DISTURBANCE IS EXPECTED TO BEGIN AROUND 22/1000Z.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 20 APR/1700Z ENDING 23 APR/1700Z.

CLASS M OR GREATER 80/80/80

CLASS X 20/20/20

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUX FOR 20/1400Z WAS 135. PREDICTED 10.7 CM FLUX FOR 21-23 APR IS 135/137/139.

E. MAGNETIC A-FREDERICKSBURG FOR 19 APR WAS 08. FOR 20 APR ABOUT 05 PREDICTED AP FOR 21-23 APR, 05/08/16.

SOLTERWARN

SPAN

BT