

NNNN

KBOU

HAUS BOU 180500

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 138A ISSUED 0500Z 18 MAY 1971

CLASS C FLARES ARE EXPECTED DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY CONTINUES AT A LOW LEVEL WITH ONLY A FEW NON-ENERGETIC SUBFLARES FROM DIFFERENT DISK REGIONS. THE REGION N05W10 IS THE MOST INTERESTING DISK FEATURE AND IT HAS BEEN DECLINING DURING THE PAST 24 HOURS. THE MAGNETIC DISTURBANCE WHICH STARTED 17/0030Z REACHED MINOR STORM PROPORTIONS 17/0632Z. THE ATS-1 PROTON COUNTS CONTINUE TO DECLINE.

B. SOLAR ACTIVITY WILL CONTINUE AT PRESENT LEVEL. THE GEOMAGNETIC DISTURBANCE WILL CONTINUE FOR THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18 MAY/0000Z ENDING 20 MAY/2400Z

CLASS M OR GREATER 55/45/45

CLASS X 05/05/02

PROTON EVENTS 01/01/01

SOLTERWARN

SPAN

BT

NNNN

KBOU

HAUS BOU 182200

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 138B ISSUED 2200Z 18 MAY 1971

NOTHING MORE ENERGETIC THAN CLASS C FLARES ARE ANTICIPATED DURING THE NEXT 24 HOURS.

A. A SINGLE M FLARE (M1) OCCURRED TODAY BEGINNING SHORTLY BEFORE 18/1416Z NEAR NO3W17. ASSOCIATED RADIO AND X-RAY EMISSIONS WERE TRIVIAL. THIS REGION ALONG WITH THE NEW ONE NEAR SO4W81 HAVE BEEN THE MOST ACTIVE DISK FEATURES. THE GEOMAGNETIC STORM CONTINUED THROUGHOUT MOST OF THE DAY DIMINISHING SIGNIFICANTLY ONLY IN THE LAST THREE HOURS. BETWEEN 18/0000 AND 1200Z THE LOCAL K-INDICES WERE OF THE SAME MAGNITUDE AS THE PREVIOUS 12-HOUR PERIOD, NAMELY 5,5,6,5.

B. FURTHER DECAY IS EXPECTED WITHIN THE SIX SMALL SPOT GROUPS CURRENTLY VISIBLE. THE DISTURBED GEOMAGNETIC CONDITIONS IN EFFECT SHOULD CONTINUE AN ADDITIONAL 24 HOURS WITH TYPICAL K-INDICES LOCALLY EQUAL TO ABOUT THREE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 19 MAY/0000Z ENDING 21 MAY/2400Z.

CLASS M OR GREATER 45/40/35

CLASS X 05/02/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 18/1400, 1700, AND 2000Z WERE 110,109 AND 107 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 19-21 MAY IS 109/105/103.

E. MAGNETIC A-FREDERICKSBURG FOR 17 MAY WAS 49. FOR 18 MAY ABOUT 36 PREDICTED AP FOR 19-21 MAY, 18/09/06.

SOLTERWARN

SPAN

BT