

NNNN

KBOU

HFUS BOU 040500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 277A ISSUED 0500Z 04 OCTOBER 1971

CLASS C FLARES ARE EXPECTED AND A CLASS M FLARE IS PROBABLE
DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY HAS BEEN VERY LOW SINCE THE FLARE AT 03/1329Z.
THE REGION 280 /N12E14/ WHICH PRODUCED THE FLARE WAS QUITE
ACTIVE IN ITS GROWTH RIGHT AFTER THE FLARE. THE REST OF THE
DISK HAS BEEN VERY STABLE. THE GEOMAGNETIC FIELD IS SLIGHTLY
DISTURBED.

B. REGION 280 IS CAPABLE OF PRODUCING ANOTHER CLASS M FLARE.
THE GEOMAGNETIC FIELD WILL BE SLIGHTLY DISTURBED DURING THE NEXT
20 HOURS, THEN IT SHOULD BE QUIET.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 04 OCT/0000Z ENDING 06 OCT/2400Z.

CLASS M OR GREATER 95/45/30

CLASS X 50/10/02

PROTON EVENTS 50/10/02

SOLTERWARN

SPAN

BT

HFUS BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 277B ISSUED 2200Z 04 OCT 1971

FLARES DURING THE NEXT 24 HOURS ARE NOT EXPECTED TO BE ANY MORE ENERGETIC THAN SMALL CLASS C EVENTS.

A. NOT MORE THAN 5 SUBFLARES HAVE BEEN OBSERVED SINCE THE 03/1329Z ENERGETIC EVENT. THE BIPOLAR REGION 280 /N12W10/ PERSISTS AS THE MOST COMPLEX FEATURE OUT OF 6 THAT ARE VISIBLE. THE HYDROGEN PLAGE AND SPOTS THERE GIVE AN INDICATION OF DECAY IN THE PAST 24 HOURS, WHILE FINE STRUCTURE IN THE FORM OF DARK ABSORPTION FEATURES AND FIBRILS EAST AND SOUTH OF THE LARGE LEADER ARE EMERGING. A NEW SPOT GROUP NEAR N20W30 IS EVOLVING RAPIDLY. THE ASSOCIATED PLAGE AND NEUTRAL LINE ARE DISCERNABLE BUT NOT YET INDICATIVE OF MAJOR ACTIVITY. LOCAL MAGNETOMETER TRACES ARE RUNNING ABOUT K EQUAL ONE OR TWO.

B. INFREQUENT, NON-ENERGETIC SUBFLARES PRIMARILY FROM REGION 280 /N12W10/ SHOULD CHARACTERIZE THE ACTIVITY LEVEL FOR AT LEAST THE NEXT 3 DAYS. YESTERDAY'S M8 EVENT IS NOT EXPECTED TO PRODUCE A MAGNETIC STORM, RATHER, ONLY MINOR FLUCTUATIONS ROUGHLY 60 HOURS FROM THE FLARE'S ONSET TIME /ABOUT 06/0000Z/. THE REASONING HERE STEMS FROM THE LACK OF TYPE II AND IV IN ASSOCIATION WITH THE FLARE. METER WAVELENGTH EMISSIONS THAT WERE OBSERVED IMPLIED SUBSTANTIAL PARTICLE TRAPPING AND NOT A WELL DEFINED SHOCK WAVE WITH ENERGETIC STORM PARTICLES.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 05 OCT/0000Z ENDING 07 OCT/2400Z.

CLASS M OR GREATER 45/30/25

CLASS X 10/02/02

PROTON EVENTS 10/02/02

D. OTTAWA 10.7CM FLUXES FOR 04/1400Z, 04/1700Z AND 04/2000Z WERE 109, 109 AND 107 RESPECTIVELY. PREDICTED 10.7CM FLUX FOR 05-07 OCT IS 106/103/102.

E. MAGNETIC A-FREDERICKSBURG FOR 03 OCT WAS 18. FOR 04 OCT ABOUT 09. PREDICTED AP FOR 05-07 OCT IS 05/14/03.

SOLTERWARN

SPAN

BT