

HXUS BOU 020500

FM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 275A ISSUED 0500Z 02 OCT 1971

OCCASIONAL CLASS C FLARES ARE EXPECTED DURING THE NEXT SEVEN HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A VERY LOW LEVEL DURING THE PAST SEVEN HOURS, AND NO ENERGETIC FLARES HAVE BEEN REPORTED. ACCORDING TO THE MOUNT WILSON OBSERVATORY, A DELTA CONFIGURATION EXISTS IN REGION 280 (N11E30) WHERE UMBRAE OF TRAILING POLARITY ARE PRESENT WITHIN THE SOUTHEASTERN CORNER OF THE MAIN PENUMBRA. FLUCTUATING PLAGE HAS RECENTLY BEEN OBSERVED IN REGION 281 (N13E37) AND IN THE TRAILING PART OF REGION 277 (S05W22).

A SMALL NEW B-TYPE SPOT GROUP LACKING SIGNIFICANT PLAGE HAS APPEARED AT N16E37. OTHER REGION ARE RELATIVELY UNIMPRESSIVE. DURING THE PAST SEVEN HOURS, THE GEOMAGNETIC FIELD HAS REMAINED ACTIVE, WITH K-INDICES OF FOUR AT BOULDER.

B. NO CHANGE

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 02 OCT/0000Z ENDING 04 OCT/2400Z.

CLASS M OR GREATER 30/30/30

CLASS X 02/02/02

PROTON EVENTS 02/04/05

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HFUS BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 275B ISSUED 2200Z 02 OCT 1971

MINOR FLARES EXPECTED

A. FLARES HAVE BEEN RECORDED IN REGIONS 277 AND 280. ALL WERE CLASS C. THE MOST SIGNIFICANT DEVELOPMENT HAS BEEN THE EMERGENCE OF A NEW BIPOLAR STRUCTURE /REGION 285 AT N17E21/ ON THE NORTH SIDE OF REGION 280 /N12E18/. THE TWO REGIONS REMAIN SEPARATE BUT DIFFERENTIAL ROTATION MAY INTRODUCE SOME COMPLEX INTERACTION BETWEEN THE TWO. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING LOCAL NIGHTTIME PERIODS.

B. MINOR FLARES ARE EXPECTED FROM REGIONS 280 AND 284. THESE COULD RANGE TO SMALL CLASS M INTENSITY. REGION 277 WILL CONTINUE TO PRODUCE FLARES ASSOCIATED WITH PROMINENCE ACTIVITY. THE GEOMAGNETIC FIELD IS EXPECTED TO CONTINUE TO BE UNSETTLED TO ACTIVE DURING LOCAL NIGHTTIME PERIODS UNTIL 04 OCTOBER WHEN ACTIVITY WILL AGAIN INCREASE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 03/0000Z ENDING 05/2400Z.

CLASS M OR GREATER 30/30/30

CLASS X 02/02/02

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUXES FOR 02/1400Z, 02/1700Z AND 02/2000Z WERE 114, 114 AND 113 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 03-05 OCT IS 115/115/115.

E. MAGNETIC A-FREDERICKSBURG FOR 01 OCT WAS 17. FOR 02 ABOUT 17 PREDICTED AP FOR 03-05 OCT, 13/18/24.

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