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HFUS BOU 160500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 197A ISSUED 0500Z 16 JULY 1971.

CLASS C FLARES AT THE AVERAGE RATE OF ABOUT ONE PER HOUR ACROSS THE DISK ARE EXPECTED DURING THE NEXT 24 HOUR PERIOD.

A. NON-ENERGETIC FLARE ACTIVITY HAS BEEN ORIGINATING PRIMARILY WITHIN THE CLOSELY SPACED PAIR OF REGIONS CENTERED NEAR N15W00.

THE TYPES D AND H GROUPS VISIBLE THERE HAVE A COMBINED AREA OF ABOUT 140 MILLIONTHS, ARCH FILAMENTS EVIDENT IN THE CENTRAL AND TRAILING PORTIONS, AND AN INTENSITY 3 PLAGE.

REGION 164, THE CENTROID OF WHICH LIES NEAR NOSE31, APPEARS TO BE EXHIBITING FURTHER GROWTH IN H-ALPHA. THE SPECTRAL RADIOHELIOGRAPH LOCATED AT CULGOORA, AUSTR., AGP~~AN~~ REPORTS TYPE I CONTINUUM AND BURSTS OVER AT LEAST 70 TO 200 MHZ FROM A POSITION MOST NEARLY COINCIDENT WITH THIS DISK FEATURE; A NUMBER OF TYPE IIIS WERE OBSERVED AS WELL. GEOMAGNETICALLY CONDITIONS ARE QUIET.

B. NO CHANGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 16 JULY/0000Z ENDING 18 JULY/2400Z.

CLASS M OR GREATER 40/45/50

CLASS X 02/02/02

PROTON EVENTS 01/01/01

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HXUS BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 197B ISSUED 2200Z 16 JULY 1971

OCCASIONAL CLASS C FLARES ARE EXPECTED DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A RELATIVELY LOW LEVEL DURING THE PAST 17 HOURS, AND ONLY CLASS C EVENTS HAVE BEEN REPORTED. THE MOST SIGNIFICANT RECENT FLARE CONSISTED OF A CLASS C ONE-NORMAL FLARE AT 16/1716Z IN THE PLAGE BETWEEN REGION 165 (N10E37) AND REGION 172 (N10E42). THIS FLARE CONSISTED OF PARALLEL RIBBONS ALONG A FILAMENT AND WAS ACCOMPANIED BY A MINOR SPA AND TRIVIAL RADIO BURSTS. A STRONG ARCHING FILAMENT FORMED NEAR REGION 165 AFTER THE 1716Z FLARE. BOTH REGIONS 165 AND 172 CONTAIN SMALL, SIMPLE SPOT GROUPS WITH VERY LITTLE PLAGE. GENERAL DECLINE HAS OCCURRED IN REGIONS 167 (N14W09) AND 164 (N06E20), BUT MODERATELY IMPRESSIVE PLAGE REMAINS IN REGION 164. OTHER REGIONS ARE UNIMPRESSIVE. QUIET GEOMAGNETIC CONDITIONS HAVE BEEN OBSERVED DURING THE PAST 24 HOURS.

B. SOLAR ACTIVITY PROBABLY WILL REMAIN NEAR THE PRESENT LEVEL DURING THE NEXT THREE DAYS. QUIET GEOMAGNETIC CONDITIONS ARE EXPECTED TO CONTINUE FOR AT LEAST 72 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 17 JULY/0000Z ENDING 19 JULY/2400Z.

CLASS M OR GREATER 40/40/40

CLASS X 02/02/02

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 16/1400Z, 16/1700Z AND 16/2000Z WERE 122, 121 AND 120 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 17-19 JULY IS 125/125/122.

E. MAGNETIC A-FREDERICKSBURG FOR 15 JULY WAS 07. FOR 16 JULY ABOUT 04 PREDICTED AP FOR 17-19 JULY, 03/06/06.

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