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HFUS BOU 010500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 274A ISSUED 0500Z 01 OCT 1971

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

A. SOLAR ACTIVITY HAS REMAINED AT A VERY LOW LEVEL DURING THE PAST SEVEN HOURS, AND NO ENERGETIC ACTIVITY HAS BEEN REPORTED. LITTLE SIGNIFICANT CHANGE HAS OCCURRED IN REGION 278 /S05E02/, WHILE SLIGHT DEVELOPMENT OF THE PLAGE HAS OCCURRED IN REGION 280 /N11E43/. OTHER DISK FEATURES ARE RELATIVELY UNIMPRESSIVE. THE GEOMAGNETIC DISTURBANCE THAT BEGAN AT ABOUT 30/0510Z INTENSIFIED AFTER ABOUT 01/0130Z. DURING THE INTERVAL 01/0000-0300Z, A MAGNETIC BAY OF ABOUT 130 GAMMAS /K EQUAL 6/ WAS OBSERVED ON THE D-COMPONENT. SINCE ABOUT 01/0300Z, THE LEVEL OF MAGNETIC DISTURBANCE HAS DECREASED.

B. REGION 278 MAY YET PRODUCE SPORADIC SMALL CLASS M EVENTS DURING THE REST OF ITS DISK PASSAGE. REGION 280 IS AT A PREFERRED LOCATION FOR GROWTH AND INCREASING COMPLEXITY SUFFICIENT TO PRODUCE CLASS M FLARES BUT SUCH EVENTS ARE NOT EXPECTED DURING THE NEXT 24 HOURS AT LEAST. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN ACTIVE ANOTHER 12 HOURS WITH PROBABLE MIDLATITUDE LOCAL K VALUES OF 4 OR 5.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 01 OCT/0000Z ENDING 03 OCT/2400Z.

CLASS M OR GREATER 30/30/35

CLASS X 01/01/01

PROTON EVENTS 01/01/01

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 274B ISSUED 2200Z 01 OCT 1971

MINOR FLARES EXPECTED

A. THERE HAVE BEEN ONLY A FEW MINOR CHROMOSPHERIC BRIGHTENINGS ON THE SUN-MOSTLY IN REGION 280 /N11E32/. THE THREE PRINCIPAL REGIONS ON THE DISK-277 /S20W07/, 278 /S04W08/ AND 280 HAVE ALL SHOWN LITTLE CHANGE. THE GEOMAGNETIC DISTURBANCE THAT BEGAN ON 30 SEPT CONTINUED THROUGH THE PAST NIGHT. MAXIMUM K AT FREDERICKSBURG WAS 5 BETWEEN 01/0000Z AND 01/0300Z.

B. MINOR CHROMOSPHERIC FLARES ASSOCIATED WITH PROMINENCE ACTIVITY ARE EXPECTED IN REGION 277. REGIONS 278 AND 280 CAN STILL PRODUCE SPORADIC FLARES UP TO ABOUT CLASS M1. ANY OF THESE THREE REGIONS COULD DEVELOP SUCH THAT THEY WOULD PRODUCE MORE SIGNIFICANT ACTIVITY BUT NONE SHOW ANY SIGN OF DOING SO IN THE NEXT 24 HOURS. THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETLED DURING LOCAL NIGHTTIME PERIODS UNTIL LATE OCT 4 OR OCT 5 WHEN A RECURRING DISTURBANCE IS EXPECTED.

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

CLASS M OR GREATER 30/30/30

CLASS X 02/02/02

PROTON EVENTS 02/04/05

D. OTTAWA 10.7CM FLUXES FOR 01/1400Z, 01/1700Z AND 01/2000Z WERE 113, 114 AND 114 RESPECTIVELY. PREDICTED 10.7CM FLUX FOR 02-04 OCT IS 113/112/110.

E. MAGNETIC A-FREDERICKSBURG FOR 30 SEPT WAS 16. FOR 01 OCT ABOUT 15. PREDICTED AP FOR 02-04 OCT IS 11/10/10.

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