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HFUS BOU 300500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 273A ISSUED 0500Z 30 SEPT 1971

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

A. SOLAR ACTIVITY HAS REMAINED AT A LOW LEVEL DURING THE PAST SEVEN HOURS, AND NO ENERGETIC ACTIVITY HAS BEEN REPORTED. REGION 278 /S05E15/ REMAINS THE MOST IMPRESSIVE DISK FEATURE, EXHIBITING FLUCTUATING PLAGE. REGION 280 /N11E59/ IS STILL DORMANT WITH UNIMPRESSIVE PLAGE, DESPITE ITS E-TYPE SPOT GROUP WITH AN AREA OF 490 MILLIONTHS. OTHER REGIONS ARE RELATIVELY UNIMPRESSIVE. VERY QUIET GEOMAGNETIC CONDITIONS HAVE BEEN OBSERVED DURING THE PAST SEVEN HOURS.

B. NO CHANGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 30 SEP/0000Z ENDING 02 OCT/2400Z.

CLASS M OR GREATER 30/35/35

CLASS X 01/01/01

PROTON EVENTS 01/01/01

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HFUS BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 273B ISSUED 2200Z 30 SEPT 1971

MINOR FLARES ARE EXPECTED.

A. FREQUENT MINOR FLARES HAVE BEEN SEEN-NONE WERE ENERGETIC. NEARLY ALL WERE IN EITHER REGION 275 /N13W60/ OR 278 /S05E03/. REGION 275 HAS PREVIOUSLY HAD WEAK NEW MAGNETIC FIELDS EMERGE LATE IN ITS DECAY PHASE THE SAME AS NOW. THESE HAVE NOT PRODUCED SIGNIFICANT ACTIVITY BEFORE. SOME SLOW GROWTH HAS BEEN SEEN IN BOTH WHITE LIGHT AND CHROMOSPHERIC PLAGE IN REGION 278. AS A RESULT, MAXIMUM ENERGY CAPABILITIES OF THE REGION HAVE PROBABLY INCREASED AS WELL, THOUGH CLASS M EVENTS STILL DO NOT APPEAR LIKELY. REGION 280 /N11E45/ IS NOW SIMPLE MAGNETICALLY. IT HAS NOT PRODUCED ENERGETIC FLARES. THE GEOMAGNETIC FIELD BECAME ACTIVE LOCALLY ABOUT 30/0530Z.

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 LEASE. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN ACTIVE ANOTHER 12 HOURS WITH PROBABLE MAXIMUM MIDLATITUDE LOCAL NIGHTTIME K VALUES OF 4 OR 5.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 1 OCT/0000Z ENDING 3 OCT/2400Z.

CLASS M OR GREATER 30/30/35

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 30/1400Z, 30/1700Z AND 30/2000Z WERE 116, 117 AND 114 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 01-03 OCT IS 117/117/117.

E. MAGNETIC A-FREDERICKSBURG FOR 29 SEPT WAS 06. FOR 30 SEPT ABOUT 13 PREDICTED AP FOR 1-3 OCT, 18/12/10.

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