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HXUS BOU 160500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 259A ISSUED 0500Z 16 SEPT 1971

ONE OR TWO CLASS M FLARES ARE LIKELY DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY HAS DROPPED TO A VERY LOW LEVEL DURING THE PAST SEVEN HOU

RFN AND NO ENERGETIC FLARES HAVE BEEN REPORTED.

ONLY SLIGHT CHANGE HAS OCCURRED IN THE SPOTS OF REGION 263 (S11E42) AND 266 (S12E51), BUT THE PLAGE AREAS ABOVE THESE GROUPS ARE MERGING TO FORM A SINGLE COMPLEX. OTHER REGIONS ARE UNIMPRESSIVE. THE GEOMAGNETIC FIELD HAS REMAINED QUIET EXCEPT FOR A POSITIVE BAY OF ABOUT 50 GAMMAS ON THE D-COMPONENT DURING THE INTERVAL 16/0230-0330Z.

B. NO CHANGE

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

CLASS M OR GREATER 85/85/85

CLASS X 10/10/10

PROTON EVENTS 10/10/10

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HFUS BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 259B ISSUED 2200Z 16 SEPT 1971

MINOR FLARES ARE EXPECTED. ENERGETIC /CLASS M/ FLARES ARE POSSIBLE.

A. THERE HAVE BEEN ONLY MINOR FLARES THE PAST 24 HOURS, MOSTLY FROM THE COMPLEX OF REGIONS 263/266 /S10E32 AND S09E39/. THE PLAGE IN THE COMPLEX HAS INCREASED IN AREA BUT THE STRUCTURE HAS WEAKENED, INDICATING SOME DECLINE IN MAGNETIC FIELD GRADIENTS. THE WHITE LIGHT SPOT AREA HAS ALSO DECLINED. APPARENTLY THE REGION HAS REACHED MAXIMUM DEVELOPMENT IN ITS CURRENT GROWTH. TYPICALLY, THE FLARES WILL OCCUR LESS OFTEN, BUT SOME OF THEM MAY BE MORE ENERGETIC THAN HAVE BEEN RECORDED SO FAR. REGION 265 /N06E31/ HAS PRODUCED OCCASIONAL NON-ENERGETIC FLARES BUT NO SIGNIFICANT DEVELOPMENT HAS BEEN REPORTED THERE. REGION 268 /S01E70/ IS THE RETURN OF A REGION THAT WAS NOT A SOURCE OF ENERGETIC FLARES LAST ROTATION. IT HAS DECAYED FURTHER SINCE IT WENT OVER WEST LIMB. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED.

B. WITH NO FURTHER DEVELOPMENTS, REGION 263/266 WILL PROBABLY GIVE ONE FLARE OF CLASS M7 TO X3 IN THE NEXT WEEK TO TEN DAYS, PREFERABLY TOWARD THE END OF THAT TIME. IF NEW BIPOLAR STRUCTURES EMERGE IN THE THE SAME COMPLEX, FREQUENT CLASS M PRODUCTION WOULD RESUME IN THE SUCCEEDING 24 HOURS. NO ENERGETIC ACTIVITY IS EXPECTED FROM THE OTHER DISK REGIONS. THE GEOMAGNETIC FIELD SHOULD CONTINUE TO BE UNSETLED.

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

CLASS M OR GREATER 75/75/75

CLASS X 10/10/10

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUXES FOR 16/1400Z, 16/1700Z AND 16/2000Z WERE 112, 111 AND 112 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 17-19 SEPT IS 110/110/110.

E. MAGNETIC A-FREDERICKSBURG FOR 15 SEPT WAS 11. FOR 16 ABOUT 11 PREDICTED AP FOR 17-19 SEPT, 10/08/07.

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