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HAUS BOU 190413

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 845A ISSUED 0400Z 19 DECEMBER 1970

CLASS C FLARES ARE EXPECTED AND AN OCCASIONAL CLASS M FLARE IS PROBABLE DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS BEEN MODERATELY LOW DURING THE PAST 11 HOURS. ONLY CLASS C ACTIVITY HAS BEEN OBSERVED. THE REGION N19E11 WHICH SHOWED RAPID GROWTH AND DEVELOPMENT EARLIER HAS STABILIZED. OTHER REGIONS ARE QUIET, AND THE NEW REGION COMING ON THE DISK IN THE SOUTH EAST IS SIMPLE AND NOT VERY BRIGHT. THE GEOMAGNETIC FIELD IS QUIET.

B. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT ABOUT SAME LEVEL, CLASS C AND OCCASIONAL CLASS M FLARES. THE GEOMAGNETIC FIELD IS EXPECTED TO HAVE PERIODS OF SLIGHT DISTURBANCE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 19 DEC/0400Z ENDING 22 DEC/0400Z.

CLASS M OR GREATER 60/60/60

CLASS X 02/02/02

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 18/1700Z AND 18/2000Z WERE 160 AND 158 RESPECTIVELY.

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HAUS BOU 191700

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 845B ISSUED 1700Z 19 DECEMBER 1970

CLASS-C FLARES AND ONE OR TWO SMALL CLASS-M FLARES ARE ANTICIPATED DURING THE NEXT 11 HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A RELATIVELY LOW LEVEL; SEVERAL CLASS-C SUBFLARES HAVE BEEN REPORTED DURING THE PAST 13 HOURS. THE MOST IMPRESSIVE DISK FEATURE CONSISTS OF A YOUNG D/180 SPOT GROUP AND BRIGHT, COMPACT PLAGE AT N24W02; THIS REGION CONTAINS ACTIVE ARCH FILAMENTS AND FLARE POINTS, BUT SO FAR NO ENERGETIC FLARES HAVE BEEN PRODUCED BY THE REGION. SOME SPOT GROWTH HAS OCCURRED IN THE NORTHEASTERN PART OF THE N12E07 REGION AND THE MAIN SPOT HAS SPLIT INTO TWO PARTS. MODERATELY BRIGHT, COMPACT PLAGE IS PRESENT IN THE REGION AT S11E64; THIS REGION MAY CONTAIN A SMALL D-TYPE SPOT GROUP. RELATIVELY UNIMPRESSIVE D-TYPE SPOT GROUPS HAVE DEVELOPED AT S09E25 AND AT S10W14, AND THE REGION AT S11W85 HAS DEVELOPED COMPACT PLAGE NEAR FLARE BRIGHTNESS. DESPITE AN APPARENT SUDDEN COMMENCEMENT AT 18/2144Z, THE GEOMAGNETIC FIELD HAS REMAINED RELATIVELY QUIET DURING THE PAST 24 HOURS; THE LARGEST K-VALUE REPORTED BY MIDDLE-LATITUDE OBSERVATORIES WAS THREE.

B. OCCASIONAL CLASS-C FLARES AND SPORADIC SMALL CLASS-M EVENTS ARE ANTICIPATED DURING THE THREE-DAY FORECAST PERIOD; MUCH OF THE ACTIVITY IS EXPECTED TO ORIGINATE IN THE COLLECTION OF REGIONS NEAR CENTRAL MERIDIAN IN THE NORTHERN PART OF THE DISK. THE GEOMAGNETIC FIELD PROBABLY WILL REMAIN RELATIVELY QUIET DURING THE NEXT 72 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 19 DEC/1700Z ENDING 22 DEC/1700Z.

CLASS M OR GREATER 60/70/70

CLASS X 02/02/02

PROTON EVENTS 01/01/01

D. OTTAWA 10.7CM FLUX FOR 19/1400Z WAS 158. PREDICTED

10.7CM FLUX FOR 20-22 DEC IS 162/164/165.

E. MAGNETIC A-FREDERICKSBURG FOR 8 DEC WAS 03. FOR 19 DEC ABOUT 07. PREDICTED AP FOR 20-22 DEC IS 07/07/07.

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