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KMSC

HAUS BOU 310400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 643A ISSUED 0400Z 31 MAY 1970

CLASS C FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 11 HOURS WITH ONLY A FEW NON-ENERGETIC FLARES BEING OBSERVED. THE REGION S07W43 APPEARS TO BE BREAKING UP IN THE LEADER PORTION. THE FOLLOWER PORTION STILL CONTAINS A DELTA CONFIGURATION BUT IS VERY WEAK. THE REGION N18W42 SHOWED GROWTH AND DEVELOPMENT IN ITS FOLLOWER PORTION. NO FLARES WERE OBSERVED HOWEVER. THE REMAINING REGIONS ON THE DISK ARE QUIET. THE PROTON EVENT REACHED MAXIMUM AT SATELLITE LEVELS AT 30/2230Z. THE GEOMAGNETIC FIELD IS QUIET.

B. SOLAR ACTIVITY WILL REMAIN AT PRESENT LEVEL, CLASS C AND AN OCCASIONAL CLASS M EVENT. THE PROTON EVENT WILL CONTINUE TO DECLINE. THE GEOMAGNETIC FIELD WILL SHOW PERIODS OF SLIGHT DISTURBANCE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 31 MAY/0400Z ENDING 03 JUNE/0400Z

CLASS M OR GREATER 70/70/70

CLASS X 10/10/10

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUXES FOR 30/1700Z AND 30/2000Z WERE 159 AND 158 RESPECTIVELY.

SOLTERWARN

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HAUS BOU 311714Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 643B ISSUED 1700Z 31 MAY 1970

INFREQUENT CLASS M FLARES ARE EXPECTED IN THE NEXT 11 HOURS.

A. SOLAR FLARE AND LIMB ACTIVITY HAVE BEEN LOW THE PAST 24 HOURS.

A CLASS M, SN, FLARE WAS DETECTED BY VELA SATELLITE AT 31/1108Z,  
LOCATION S03W55. THIS FLARE WAS ACCCOMPANIED WITH A RADIO BURST THAT  
PEAKED AT THE LOW END OF THE FREQUENCY SPECTRUM AND 10 CM GAVE 70  
FLUX UNITS. HAWAII (OAHU) REPORTED A 2B FLARE AT 31/0300Z WHEREAS  
CULGOORA REPORTED A 1N FROM N12E72. SINCE LITTLE IF ANY EFFECTS WERE  
FELT FROM THE FLARE HAWAII'S OPTICAL CLASSIFICATION HAS BEEN DISREGARDED.  
ATS-1 SATELLITE PROTON FLUXES REMAIN ENHANCED PRESENTLY READING 2  
PARTICLES/CM<sup>2</sup>/SEC ON THE 20-70 MEV CHANNEL AND 100 PARTICLES/CM<sup>2</sup>/SEC  
ON THE 5-20 MEV CHANNEL. THE GEOMAGNETIC FIELD IS QUIET. CONGRATULATIONS  
TO AL UNSER FOR HIS INDY 500 VICTORY.

B. THE SUN HAS SHOWN LITTLE CHANGE SINCE THE LAST FORECAST, REFER TO  
FORECAST 643A.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR  
PERIODS BEGINNING 31 MAY/1700Z ENDING 02 JUNE/1700Z.

CLASS M OR GREATER 70/70/70

CLASS X 10/10/10

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUX FOR 31 MAY/1400Z WAS 160.

PREDICTED 10.7 CM FLUX FOR 1-3 JUNE IS 160/160/160.

E. MAGNETIC A-FREDERICKSBURG FOR 30 MAY WAS 11. FOR 31 MAY ABOUT 08  
PREDICTED AP FOR 1-3 JUNE, 10/10/10.

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