

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 528A ISSUED 0400Z 05 FEB 1970  
INFREQUENT CLASS C FLARES ONLY ARE EXPECTED DURING THE  
NEXT 13-HOUR PERIOD.

A. THE PREVIOUS GREENWICH DAY WAS CHARACTERIZED BY APPROXIMATELY  
10 FLARES. THIS ACTIVITY WAS OBSERVED TO HAVE AN ALMOST EVEN  
DISTRIBUTION AMONG 4 OF THE 6 SMALL SPOT GROUPS NOW VISIBLE.  
ON THE WEST LIMB NEAR S11 AN IMPORTANCE 2 BRIGHT SURGE BEGAN ABOUT  
04/1325Z FOLLOWED BY ANOTHER (LARGE IMPORTANCE 1) 15 MINUTES LATER  
7 DEGREES FURTHER NORTH. THE MOST RECENT OBSERVATIONS SHOW ACTIVE  
PROMINENCES AND BSL'S ALONG THE SE LIMB AND A QUIET DISK.  
A RELATIVISTIC ELECTRON PRECIPITATION EVENT (REP) BEGAN 04/0907Z  
ON THE ALASKAN SOLAR PROTON NETWORK. THE EVENT, WHICH MAY BE  
CONSIDERED AS A KIND OF HIGH-ENERGY AURORA, PRODUCED A NIGHTTIME  
SIGNAL ENHANCEMENT ON THE 23MHZ FORWARD SCATTER (FROM BARROW TO  
ANCHORAGE) BEGINNING 04/0830Z AND EQUIVALENT DAYTIME AURORAL  
ZONE RIOMETER ABSORPTION OF ABOUT 15 DB FOR A HIGH. RIOMETER  
RESPONSES HAVE WAXED AND WANED SEVERAL TIMES THROUGHOUT THE PAST  
24-HOUR PERIOD. WITH RESPECT TO THIS EVENT THERE HAVE BEEN  
REPORTS OF SIGNAL FADES BY US COAST GUARD RADIOTELETYPE FACILITIES.

B. SEE PREVIOUS MESSAGE FOR ANTICIPATED SOLAR DISK ACTIVITY.  
NO FURTHER RESURGENCE OF THE REP EVENT DESCRIBED ABOVE IS EXPECTED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24  
HOUR PERIODS BEGINNING 05 FEB/0400Z ENDING 08/0400Z.

CLASS M OR GREATER 20/20/20

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 04/1700 AND 2000Z WERE 124 AND 123  
RESPECTIVELY.

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*Questionable since largest absorption day might  
was ~3 on the Anchorage record for 24 Feb.*

*Since REP events fluctuate more so than PCA,  
some nighttime values could have gone as high as  
5 during one of the 15m intervals between computer  
messages. Equivalent daytime absorp would then  
be ~ (5x3) db.*

NNNN1659

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KMSC

HAUS BOU 051700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 528B ISSUED 1700Z 05 FEBRUARY 1970

ONLY CLASS C FLARES ARE EXPECTED DURING THE NEXT 11 HOURS

A. SOLAR ACTIVITY IS AT A VERY LOW LEVEL WITH ONLY A FEW  
CLASS C FLARES BEING OBSERVED. ALL REGIONS ON THE DISK

ARE VERY UNIMPRESSIVE BOTH IN WHITE LIGHT AND H-ALPHA.

NEW H-TYPE SPOT GROUPS ARE LOCATED AT S03E30 AND N19E68.

ATS-1 SATELLITE PROTON FLUXES ARE AT BACKGROUND.

THE GEOMAGNETIC FIELD IS CURRENTLY SLIGHTLY DISTURBED.

B. THE CURRENT LOW LEVEL OF ACTIVITY WILL CONTINUE FOR THE  
NEXT THREE DAYS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24  
HOUR PERIODS BEGINNING 05/1700Z ENDING 08/1700Z.

CLASS M OR GREATER 15/15/15

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 125. PREDICTED 130/137/144.

E. MAGNETIC A-FREDERICKSBURG FOR 04 FEB WAS 08. FOR 05 FEB  
ABOUT 08. PREDICTED AP FOR 06-08 FEB 08/06/08.

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