

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 AND 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 04/0930Z 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

Qwestimables since largest absorption day or night was ~3 on the Anchorage record for 24Feb.

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

SOLTERWARN

SPAN

BT

Since REP events fluctuate more so than PCA, some night times values could have gone as high as 5 during one of the 15m intervals between computer messages. Equivalent daytime absop 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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