

HFUS 1 BOU 210600  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 080A  
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 21 MARCH 1974

IA. SOLAR ACTIVITY REMAINS VERY LOW.  
IB. NO SIGNIFICANT ACTIVITY IS EXPECTED THROUGHOUT THE FORECAST PERIOD.  
II. AT 20/2140Z A MINOR RECURRENT GEOMAGNETIC DISTURBANCE BEGAN GRADUALLY, AND BY 0400Z THE K-INDEX HAD INTENSIFIED TO 5. ACTIVE TO UNSETTLED CONDITIONS ARE EXPECTED FOR THE NEXT 72 HOURS, WITH THE MOST DISTURBED CONDITIONS OCCURRING DURING LOCAL NIGHT.  
III. EVENT PROBABILITIES NO CHANGE  
IV. OTTAWA 10.7 CM FLUX NO CHANGE  
V. GEOMAGNETIC A INDICES  
OBSERVED FREDERICKSBURG 19 MAR 02  
ESTIMATED AFR/AP 20 MAR 08/09  
PREDICTED AFR/AP 21-23 MAR 18/21 - 25/33 - 15/17  
SOLTERWARN  
SPAN  
BT

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HFUS 1 BOU 211400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 080B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1400Z 21 MARCH 1974

IA. SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 368 (S07E45) HAS PRODUCED ONE NON-ENERGETIC FLARE AND SLIGHT FILAMENT ACTIVITY DURING THE PAST 8 HOURS. SLIGHT PLAGE GROWTH IS APPARENT. ALL OTHER ACTIVE REGIONS REPORTED STABLE AND DECAYING.

IB. A BAND OF LONGITUDES (WHICH BEGAN TO DEVELOP ACTIVE CENTERS DURING LAST ROTATION) IS DUE TO RETURN TO EAST LIMB TODAY. FLARE ACTIVITY IS EXPECTED TO REMAIN LOW. LIMB ACTIVITY FROM SOUTHEAST LIMB IS POSSIBLE.

II. A RECURRENT GEOMAGNETIC STORM BEGAN AT 2140 UT YESTERDAY. ACTIVITY IS EXPECTED TO GRADUALLY DIMINISH DURING THE NEXT 48 HOURS. PARTICLE FLUXES (BOTH PROTONS AND ELECTRONS) WERE SLIGHTLY ABOVE BACKGROUND IN THE LOW ENERGY RANGES.

III. EVENT PROBABILITIES 22-24 MARCH

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 MARCH 80

PREDICTED 21-23 MARCH 79/78/78

90-DAY MEAN 20 MARCH 83

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 MARCH 02

ESTIMATED AFR/AP 20 MARCH 08/09

PREDICTED AFR/AP 21-23 MARCH 33/48 - 20/24 - 15/17

SOLTERWARN

SPAN

BT

HFUS BOU 212245  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 080  
JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 21 MARCH 1974

IA. FLARE ACTIVITY HAS BEEN VERY LOW DURING THE PAST 24 HOURS.  
PLAGE FLUCTUATIONS, ARCH FILAMENT STRUCTURE, AND FILAMENT  
ACTIVITY HAVE BEEN REPORTED IN REGION 368 (S07E38). DYNAMIC  
CHARACTER IS REPORTED IN REGION 369 (S16E29), BUT NO SPOTS ARE  
VISIBLE.

IB. FLARE ACTIVITY IS EXPECTED TO CONTINUE AT PRESENT RATE  
(1 TO 2 CLASS C EVENTS PER DAY) THROUGH THE FORECAST PERIOD.  
RETURN OF OLD ACTIVE REGIONS IN THE NORTHEAST EXPECTED DURING THE  
NEXT 2 DAYS.

II. THE MINOR MAGNETIC STORM THAT BEGAN YESTERDAY CONTINUES.  
TOTAL (COLUMNAR) ELECTRON CONTENT WAS SUBSTANTIALLY ENHANCED  
YESTERDAY, AND IS SOMEWHAT ENHANCED TODAY. THIS CONSTITUTES  
A POSITIVE PHASE OF THE IONOSPHERIC STORM, AND SINCE RECOVERY  
OFTEN REQUIRES 72 HOURS AFTER ONSET OF THE NEGATIVE PHASE (WHICH  
IS EXPECTED AT ABOUT 23 HOURS U.T. TODAY), THE IONOSPHERE SHOULD  
CONTINUE TO SHOW PERTURBATIONS. E-REGION AURORAL ECHOES WERE  
OBSERVED IN ALASKA BEFORE SUNRISE AND EXTENDING THROUGH THE DAY  
BOTH YESTERDAY AND TODAY. RIOMETER ABSORPTION IN THE ALASKA CHAIN  
MAXIMIZED AT ABOUT 1945 U.T. TODAY. LOW ENERGY PROTON AND ELECTRON  
FLUXES OUTSIDE THE BOW SHOCK DEPARTED SLIGHTLY FROM BACKGROUND  
ABOUT SIX HOURS AGO, BUT QUICKLY DECAYED. THE GEOMAGNETIC FIELD IS  
EXPECTED TO BE ACTIVE (WITH OCCASIONAL UNSETLED PERIODS) DURING  
THE NEXT 48 HOURS.

III. EVENT PROBABILITIES 22 - 24 MARCH

CLASS M 05/05/05  
CLASS X 01/01/01  
PROTON 01/01/01  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX  
OBSERVED 21 MARCH 80  
PREDICTED 22-24 MARCH 80/80/80  
90-DAY MEAN 21 MARCH 83

V. GEOMAGNETIC A INDICES  
OBSERVED FREDERICKSBURG 20 MARCH 12  
ESTIMATED AFR/AP 21 MARCH 39/58  
PREDICTED AFR/AP 22-24 MARCH 20/24 - 15/17 - 15/17  
SOLTERWARN  
SPAN  
BT