

HFUS BOU

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 012A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600

Z 12 JANUARY

1974

1A. Solar activity has been very low during the past 8 hours. No flares have been observed. The regions on the disk all appear to be stable and quiet. Small surges have been observed on the SE limb.

1B. No major activity is expected during the next seven hours.

II. The geomagnetic field is quiet and will remain quiet during the next 24 hours.

III. EVENT PROBABILITIES no change

CLASS M

CLASS X

PROTON

PCAF

IV. OTTAWA 10.7 CM FLUX no change

OBSERVED

PREDICTED

90-DAY MEAN

V. GEOMAGNETIC A INDICES no change

OBSERVED FREDERICKSBURG

ESTIMATED A_{FR}/AP

PREDICTED A_{FR}/AP

NOTE: A recent comparison between two years of Fredericksburg and Planetary Magnetic indices has shown that Ap appears higher than A_{FREDERICKSBURG}. Therefore, both indices will be included in future forecasts. Only extrapolated A_p values will be given since the computation and publication of the actual observed Ap values require approximately three months.

HFUS BOU 121300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 012B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 12 JAN 1974

IA. CLOUDS HAVE HAMPERED PATROL AT MOST OBSERVATORIES DURING THE PAST 6 HOURS; HOWEVER, AT LEAST THREE FLARES WERE REPORTED. ONE OF THESE WAS CLASSED AS AN IMPORTANCE 1 BY CARNARVON AND WAS ACCCOMPANIED BY RATHER SIGNIFICANT RADIO BURST, THE MAXIMUM REACHING 112 FLUX UNITS ON 4995 MHZ. REGION 320 (S19E82) PRODUCED THE IMPORTANCE ONE FLARE AT 121030 U.T. AND HAS BEEN QUIET SINCE THAT TIME. THE OTHER TWO FLARES WERE SUBFLARES AND HAD NO SIGNIFICANT RADIO BURST ALTHOUGH ONE WAS ACCCOMPANIED BY A TYPE III.

IB. SOLAR ACTIVITY SHOULD INCREASE SLIGHTLY OVER THE NEXT 3 DAYS AS REGION 320 ROTATES FURTHER ONTO THE DISK.

II. THE GEOMAGNETIC FIELD IS QUIET TO SLIGHTLY UNSETTLED AND NO CHANGE IS EXPECTED.

III. EVENT PROBABILITIES 12 JAN - 14 JAN

CLASS M 15/20/30

CLASS X 03/03/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 JAN 95

PREDICTED 12 - 14 JAN 97/98/100

90-DAY MEAN 11 JAN 84

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 10 JAN 12

ESTIMATED AFR/AP 11 JAN 06/07

PREDICTED AFR/AP 12 - 14 JAN 07/08 - 07/08 - 10/10

SOLTERWARN

SPAN

BT

NNNN

KBOU

HFUS BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 012

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 12 JANUARY 1974.

IA. SOLAR ACTIVITY HAS INCREASED DURING THE PAST 24 HOURS. REGION 320 (S16E74) HAS CROSSED THE EAST LIMB AND PRODUCED AN IMPORTANCE ONE-NORMAL FLARE AT 12/1030Z. THIS FLARE WAS ACCCOMPANIED BY A CLASS M3 X-RAY BURST AND A RADIO BURST OF 58 FLUX UNITS AT 2695 MHZ. SEVERAL OTHER EVENTS ABOVE THE CLASS C1 LEVEL HAVE OCCURRED RECENTLY, AND MOST OF THESE EVENTS SEEM TO BE ASSOCIATED WITH REGION 320. REGION 320 IS BELIEVED TO BE REGION 300, WHICH WAS SOMEWHAT ACTIVE ON ITS LAST TRANSIT ACROSS THE DISK. REGION 320 CONTAINS AN H-TYPE SPOT AND SMALL SPOTS, POSSIBLY OF FOLLOWER POLARITY, TO THE NORTHWEST. THIS MAGNETIC CONFIGURATION IS SOMEWHAT UNSTABLE AND MAY ACCOUNT FOR SOME OF THE RECENT INCREASE IN ACTIVITY. REGION 314 CONTAINS AN ARCH FILAMENT SYSTEM AND HAS BEEN SOMEWHAT ENHANCED IN H-ALPHA. REGION 317 (S13E47) PRODUCED A SUB-FAINT FLARE AT 12/0657Z AND HAS SHOWN MINOR PLAGE ENHANCEMENTS. OTHER REGIONS HAVE REMAINED RELATIVELY STABLE. OCCASIONAL TYPE III RADIO BURSTS HAVE OCCURRED RECENTLY. THESE BURSTS MAY BE ASSOCIATED WITH REGION 320.

IB. SOLAR ACTIVITY PROBABLY WILL INCREASE SLIGHTLY DURING THE THREE-DAY FORECAST PERIOD, ESPECIALLY IF DEVELOPMENT OCCURS IN REGION 320. OCCASIONAL SUBFLARES, SOME APPROACHING CLASS M INTENSITY, ARE LIKELY IN REGIONS 320 AND 317.

II. THE GEOMAGNETIC FIELD HAS REMAINED QUIET. QUIET TO UNSETLED CONDITIONS ARE LIKELY DURING THE THREE-DAY FORECAST PERIOD.

III. EVENT PROBABILITIES 13 JAN - 15 JAN.

CLASS M 20/25/30

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 12 JAN 98

PREDICTED 13 JAN - 15 JAN 100/102/103

90-DAY MEAN 12 JAN 84

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 11 JAN 06

ESTIMATED AFR/AP 12 JAN 03/04

PREDICTED AFR/AP 13 JAN - 15 JAN 07/08 - 08/09 - 09/10

SOLTERWARN

SPAN

BT