

HFUS 1 BOU 250600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 359A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 25 DEC 1974

IA. SOLAR ACTIVITY HAS REMAINED VERY LOW DURING THE PAST 8 HOURS, AND NO ENERGETIC ACTIVITY HAS BEEN REPORTED. LITTLE SIGNIFICANT CHANGE HAS OCCURRED IN THE RELATIVELY UNIMPRESSIVE REGIONS ON THE DISK.

IB. A VERY LOW LEVEL OF SOLAR ACTIVITY IS EXPECTED DURING THE REMAINDER OF THE FORECAST PERIOD. SIGNIFICANT FLARE ACTIVITY IS UNLIKELY.

II. THE GEOMAGNETIC FIELD HAS BEEN RELATIVELY QUIET DURING THE PAST 8 HOURS. GENERALLY QUIET GEOMAGNETIC CONDITIONS ARE LIKELY DURING THE REMAINDER OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 25 - 27 DEC

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 DEC 83

PREDICTED 25 - 27 DEC 82/81/78

90-DAY MEAN 24 DEC 91

V. GEOMAGNETIC A INDECES

OBSERVED FREDERICKSBURG 23 DEC 11

ESTIMATED AFR/AP 24 DEC 09/10

PREDICTED AFR/AP 25 - 27 DEC 06/07 - 06/07 - 03/04

SOLTERWARN

BT

HXUS BOU 251430

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 359B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1430Z 25 DEC 1974

IA. SOLAR ACTIVITY HAS REMAINED VERY LOW.

IB. VERY LOW TO LOW LEVELS OF ACTIVITY ARE EXPECTED.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

QUIET CONDITIONS ARE EXPECTED TO CONTINUE WITH UNSETTLED PERIODS
POSSIBLE.

III. EVENT PROBABILITIES 25 - 27 DEC

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 DEC 83

PREDICTED 25 - 27 DEC 82/81/78

90-DAY MEAN 24 DEC 91

V. GEOMAGNETIC A INDECES

OBSERVED FREDERICKSBURG 23 DEC 11

ESTIMATED AFR/AP 24 DEC 10/09

PREDICTED AFR/AP 25 - 27 DEC 06/07 - 06/07 - 03/04

SOLTERWARN

BT

HFUS BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 359

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 25 DEC 1974

IA. SOLAR ACTIVITY INCREASED SOMEWHAT BUT REMAINS AT VERY LOW LEVELS. REGION 539 (N06W28), THE ONLY REGION WITH SPOTS ON THE DISK, PRODUCED A LARGE, LONG-LASTING, IMPORTANCE IN FLARE WITH A MAXIMUM AT 1922Z. THIS WAS AN APPARENT HYDER FLARE CONSISTING OF PARALLEL RIBBONS ALONG MUCH OF THE NEUTRAL LINE FILAMENT WHICH ENCLOSES AN ELONGATED NORTH-SOUTH CLOSED POLE. DARK SURGES WERE OBSERVED BOTH NORTH AND SOUTH OF THE H-TYPE SPOT GROUP. THE 1-8 ANGSTROM X-RAY LEVEL AS MEASURED BY GOES REACHED CLASS C-7 LEVELS AT 1921Z AND HAS BEEN SLOWLY DECAYING SINCE THEN. A STRONG BURST WAS OBSERVED AT DEKOMETRIC WAVELENGTHS, AND A 38 FLUX UNIT BURST WAS OBSERVED AT 2695 MHZ. THE REST OF THE DISK REMAINS QUIET.

IB. TODAY'S FLARE WAS THE THIRD AND LARGEST IN THE LAST FOUR DAYS FROM REGION 539, INDICATING A GOOD CHANCE OF ADDITIONAL ACTIVITY DURING THE FORECAST PERIOD, POSSIBLY REACHING MINIMAL CLASS M LEVELS.

II. THE GEOMAGNETIC FIELD HAS BECOME UNSETTLED DURING THE ZULU DAY, BUT QUIET CONDITIONS ARE EXPECTED THROUGH MOST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 26 DEC - 28 DEC

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 DEC 82

PREDICTED 26 - 27 DEC 80/79/78

90-DAY MEAN 25 DEC 84

V. GEOMAGNETIC A INDECES

OBSERVED FREDERICKSBURG 24 DEC 10

ESTIMATED AFR/AP 25 DEC 07/11

PREDICTED AFR/AP 26 - 28 DEC 06/07 - 03/04 - 03/04

SOLTERWARN

BT