

HFUS 1 BOU 220550

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 356A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL
ACTIVITY ISSUED 0600Z 22 DECEMBER 1974

IA. SOLAR ACTIVITY HAS BEEN VERY LOW DURING THE PAST EIGHT HOURS.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A VERY LOW LEVEL.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST EIGHT
HOURS. THE FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE DURING THE
NEXT 24 HOURS.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE.

SOLTERWARN

BT

HXUS BOU 221445

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 356B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1430Z 22 DECEMBER 1974

IA. SOLAR ACTIVITY HAS REMAINED VERY LOW DURING THE PAST EIGHT
HOURS AND NO ENERGETIC ACTIVITY HAS BEEN REPORTED. REGIONS 541
AND 542 (N06W24 AND N04W20 RESPECTIVELY) HAVE MERGED IN H-
ALPHA AND NOW SHOW WEAK ARCH-FILAMENTS.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A VERY LOW LEVEL.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY ACTIVE DURING THE
PAST EIGHT HOURS. GENERALLY UNSETTLED CONDITIONS ARE LIKELY DUR-
ING THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 22 - 24 DECEMBER

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 DECEMBER 89

PREDICTED 22 - 24 DECEMBER 85/80/77.

90-DAY MEAN 21 DECEMBER 90

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 DEC 16

OBSERVED AFR/ESTIMATED AP 21 DEC 14/17

PREDICTED AFR/AP 22 - 24 DEC 16/20 - 10/12 - 06/08

SOLTERWARN

BT

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 356

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 22 DEC 1974

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. THE ONLY FLARE REPORTED CONSISTED OF A LONG-LIVED IMPORTANCE ONE-NORMAL CLASS C3 HYDER-TYPE FLARE THAT OCCURRED NEAR THE MAIN NEUTRAL LINE FILAMENT OF REGION 539 (N06E10). THIS FLARE BEGAN AT 22/1605Z BUT DID NOT REACH MAXIMUM OPTICAL OR X-RAY INTENSITY UNTIL 1633Z. THE FLARE DECAYED VERY SLOWLY, AND X-RAY EMISSION DID NOT RETURN TO PRE-FLARE LEVELS FOR SEVERAL HOURS. TYPE III AND TYPE IV DEKAMETRIC BURSTS AND WEAK MICROWAVE BURSTS ACCOMPANIED THIS FLARE. FEW OTHER SIGNIFICANT CHANGES HAVE OCCURRED ON THE DISK. REGION 541 (N08W28) HAS MERGED WITH REGION 542 (N07W25), AND THE RESULTANT SMALL AND UNIMPRESSIVE COMPLEX NOW IS CALLED REGION 542.

IB. SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. SIGNIFICANT ENERGETIC ACTIVITY IS NOT LIKELY. ADDITIONAL FLARES IN REGION 539 ARE NOT ANTICIPATED.

II. THE GEOMAGNETIC FIELD IS EXPECTED TO SHOW A QUIETING TREND DURING THE NEXT THREE DAYS. QUIET TO UNSETTLED CONDITIONS ARE LIKELY, BUT BRIEF PERIODS OF ACTIVE CONDITIONS ARE POSSIBLE DURING LOCAL NIGHT-TIME.

III. EVENT PROBABILITIES 23-25 DEC

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 DEC 93

PREDICTED 23-25 DEC 88/86/84

90-DAY MEAN 22 DEC 90

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 DEC 14

ESTIMATED AFR/AP 22 DEC 12/14

PREDICTED AFR/AP 23-25 DEC 11/13-10/12-07/08

SOLTERWARN