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HFUS 1 BOU 140600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 014A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 14 JANUARY 1974

IA. AN M-1 XRAY EVENT WAS REPORTED AT 14/0337Z. NO OPTICAL EVENT HAS
BEEN REPORTED AT THIS TIME. SOLAR ACTIVITY HAS BEEN LOW WITH NO
OPTICAL EVENTS HAVING BEEN OBSERVED DURING THE PAST 8 HOURS.

IB. CLASS C FLARES ARE EXPECTED AND AN OCCASIONAL CLASS M FLARE IS
PROBABLE DURING THE NEXT 7 HOURS. REGIONS 320 (S17E57) AND (S09E50) ARE MOST LIKELY TO PRODUCE THE ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST EIGHT HOURS.
THE CONDITION IS EXPECTED TO BECOME SLIGHTLY UNSETTLED FOR THE NEXT
THREE DAYS. STORM CONDITIONS ARE NOT EXPECTED.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE.

SOLTERWARN

SPAN

BT

MFUS 1 BOU 141300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 014B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 14 JANUARY 1974

IA. SOLAR ACTIVITY INCREASED DURING THE LAST TEN HOURS. TWO EVENTS WHICH EXCEED X-RAY THRESHOLDS WERE REPORTED. AT 0333 UT A CLASS C8 (SN) SUBFLARE IN ACTIVE REGION 321 (S13E76) HAD AN ASSOCIATED RADIO BURST AND IONOSPHERIC DISTURBANCE. ANOTHER EVENT, WHICH BEGAN AT 0907 UT AND SHOWED TWO MAXIMA AT 0915 AND 0928, HAS NOT BEEN ASSOCIATED WITH ANY OPTICAL PHENOMENA. CORONAL ACTIVITY ON EAST LIMB HAS SLACKED, WITH LOOPS (GREEN LINE) REPORTED NEAR REGION 321, BUT NO SURGING. DECAY IS EVIDENT IN REGIONS 314 (N06W66) AND 322 (S09E44). REGENERATION IS REPORTED IN REGION 318 (N10W06).

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST PERIOD, WITH ACTIVITY AT CLASS M LEVEL POSSIBLE.

II. THE GEOMAGNETIC FIELD WAS QUIET UNTIL ABOUT 1000 UT THIS MORNING. SINCE THEN MODERATE ACTIVITY HAS BEEN OBSERVED. THIS ACTIVITY WILL BE QUIET DURING DAYLIGHT, BUT INTENSIFY DURING DARK HOURS (LOCALLY) TONIGHT.

III. EVENT PROBABILITIES 14 JAN - 16 JAN

CLASS M 40/45/45

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 JAN 99

PREDICTED 14 JAN - 16 JAN 102/105/105

90-DAY MEAN 13 JAN 85

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 12 JAN 03

ESTIMATED AFR/AP 13 JAN 03/04

PREDICTED AFR/AP 14 JAN - 16 JAN 12/13 - 20/24 -15/17

SOLTERWARN

SPAN

BT

HFUS BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 014

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 14 JAN 1974.

IA. ALTHOUGH SOLAR ACTIVITY REMAINS GENERALLY LOW, THE NUMBER OF ACTIVE REGIONS AND THE POTENTIAL FOR ENERGETIC ACTIVITY CONTINUES TO INCREASE. A TOTAL OF 8 ACTIVE REGIONS CONTAINING SPOTS ARE CURRENTLY ON THE DISK, ALTHOUGH ONLY TWO SUBFLARES HAVE OCCURRED IN THE LAST 24 HOURS. REGION 321 (S12E68) HAS SHOWN ENHANCEMENTS THROUGH THE DAY AND AT 14/0335Z PRODUCED AN IMPORTANCE 0N, X-RAY CLASS C8 FLARE ACCOMPANIED BY A MODERATE TYPE III DEKAMETRIC RADIO BURST AND A SMALL RADIO BURST AT CENTIMETRIC WAVELENGTHS. THE ONLY REGION SHOWING SIGNIFICANT GROWTH IS REGION 323 (N09W18) WHICH GREW RAPIDLY TO A D TYPE SPOT GROUP AND CONTINUES TO GROW AT A SLOWER RATE IN BOTH WHITE LIGHT AND H ALPHA. THIS REGION PRODUCED AN APPARENTLY NON-ENERGETIC, IMPORTANCE 0F FLARE AT 14/1433Z AND HAS CONTINUED TO FLUCTUATE TO NEAR FLARE INTENSITY SINCE THEN. OTHER REGIONS ON THE DISK APPEAR RELATIVELY STABLE.

IB. A LOW TO MODERATE LEVEL OF SOLAR ACTIVITY CAN BE EXPECTED THROUGH THE FORECAST PERIOD. HIGHLY ENERGETIC ACTIVITY DOES NOT APPEAR LIKELY SINCE NONE OF THE REGIONS ARE VERY COMPLEX. HOWEVER, THERE IS A GOOD CHANCE OF A SMALL CLASS M EVENT IN THE NEXT THREE DAYS FROM REGIONS 321 OR 323.

II. THE GEOMAGNETIC FIELD CONTINUES RELATIVELY QUIET, BUT ACTIVE CONDITIONS SHOULD RETURN EARLY IN THE FORECAST PERIOD IN ASSOCIATION WITH A RECURRENT DISTURBANCE.

III. EVENT PROBABILITIES 15 JAN - 17 JAN

CLASS M 45/45/45

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 JAN 99

PREDICTED 15-17 JAN 100/101/100

90-DAY MEAN 14 JAN 85

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 13 JAN 03

ESTIMATED AFR/AP 14 JAN 05/06

PREDICTED AFR/AP 15 JAN - 17 JAN 15/17 - 20/24 - 18/21

SOLTERWARN

SPAN

BT