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HFUS 1 BOU 150600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 015A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 15 JANUARY 1974

IA. REGION 314 (N07W79) AS IT IS ABOUT TO MAKE ITS WEST LIMB PASSAGE
HAS PRODUCED A FEW NON-ENERGETIC SUBFLARES. REGION 323 (N09W18) HAS
SHOWN A GREAT DEAL OF GROWTH DURING THE LAST 24 HOURS. THE REST OF
THE DISK IS STABLE.

IB. NO MAJOR ACTIVITY IS EXPECTED DURING THE NEXT 7 HOURS. NON-
ENERGETIC SUBFLARES CAN BE EXPECTED.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IS EXPECTED TO BE
SLIGHTLY UNSETTLED DURING THE NEXT 24 HOURS.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE.

SOLTERWARN

SPAN

BT

HFUS 1 BOU 151300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 015B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 15 JANUARY 1974

IA. SOLAR ACTIVITY APPEARS TO BE INCREASING AS AT LEAST 11 SUBFLARES AND ONE IN FLARE HAVE BEEN REPORTED SO FAR TODAY. THE IN (C9) FLARE WAS FROM DEPARTING REGION 314 (N07W82) AT 1055Z. EJECTA REACHED 1.0 SOLAR RADIUS. THIS REGION PRODUCED 9 OF THE 11 SUBFLARES, SEVERAL WERE ACCOMPANIED BY EJECTA AND TYPE III DEKAMETRIC BURSTS. THE REMAINING WERE FROM REGION 323 (N09W22) WHICH SHOWS CONTINUED SLOW GROWTH. REGION 321 HAS APPARENTLY STABILIZED, BUT COULD STILL PRODUCE FLARE ACTIVITY.

IB. SOLAR ACTIVITY SHOULD BE LOW TO MODERATE THE NEXT 72 HOURS WITH A GOOD CHANCE OF ENERGETIC ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET, BUT IS BECOMING UNSETTLED AND SHOULD BE UNSETTLED TO ACTIVE THE NEXT 72 HOURS.

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 JAN - 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 05/05

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

SOLTERWARN

SPAN

BT

HFUS BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 015

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 15 JAN 1974

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE LAST 24 HOURS. MOST OF THE ACTIVITY OCCURRED IN DEPARTING REGION 314 (N07W90) WHICH PRODUCED A TOTAL OF 13 SUBFLARES AND AN IMPORTANCE IN FLARE DURING THE LAST 24 HOURS. THE IN FLARE OCCURRED AT 15/1056Z, REACHING AN X RAY CLASS M1 AND ACCOMPANIED BY A MODERATE RADIO BURST AT CENTIMETRIC WAVELENGTHS (41 FLUX UNITS AT 2995 MHZ). EJECTA FROM THE FLARE WAS OBSERVED TO REACH 1.0 SOLAR RADII. SURGING HAS CONTINUED FROM THE REGION THROUGHOUT THE DAY. REGION 323 (N08W31) HAS APPARENTLY STOPPED GROWING, BUT THIS REGION DID PRODUCE A TOTAL OF 4 SUBFLARES IN THE LAST 24 HOURS. REGION 321 (S13E54) CONTAINS A COMPACT PLAGE AND KINKED NEUTRAL LINE AND HAS BEEN THE SOURCE OF OCCASIONAL BRIGHTENINGS THROUGH THE DAY. THE PLAGE IN REGIONS 316 (S12W18) AND 320 (S17E31) HAVE BEEN ENHANCED FOR THE LAST SEVERAL HOURS. WEAK CONTINUUM (TYPE IV) HAS BEEN OBSERVED SINCE 15/1530Z AT DEKAMETRIC WAVELENGTHS WITH OCCASIONAL WEAK TYPE III BURSTS EMBEDDED.

IB. REGION 314 WILL BE ROTATING OVER THE LIMB, BUT THERE IS STILL A SMALL CHANCE OF A PROTON EVENT EARLY IN THE FORECAST PERIOD. THERE IS A GOOD CHANCE OF A SMALL CLASS M EVENT DURING THE NEXT THREE DAYS FROM REGION 321, 323, 316 OR 320 IN DECREASING ORDER OF PROBABILITY.

II. THE GEOMAGNETIC FIELD BECAME ACTIVE DURING THE DAY WITH A K VALUE OF 5 BETWEEN 12-15Z. ACTIVE CONDITIONS SHOULD CONTINUE FOR THE NEXT THREE DAYS, ESPECIALLY DURING LOCAL NIGHT HOURS WITH MINOR STORM CONDITIONS LIKELY AT HIGHER LATITUDES.

III. EVENT PROBABILITIES 16 - 18 JAN

CLASS M 35/35/35

CLASS X 05/05/05

PROTON 10/05/02

PCAF GREEN

IV. OTTAWA 10.7 FM FLUX

OBSERVED 15 JAN 95

PREDICTED 16-18 JAN 94/93/92

90-DAY MEAN 15 JAN 85

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 14 JAN 05

ESTIMATED AFR/AP 15 JAN 15/17

PREDICTED AFR/AP 16-18 JAN 25/33 - 20/24 - 18/21

SOLTERWARN

SPAN

BT