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HFUS 1 8011 010500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 213A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 01 AUGUST 1975

IA. SOLAR ACTIVITY CONTINUES AT A LOW LEVEL WITH FREQUENT BUT
SMALL CLASS C XRAY FLARES OCCURRING. RGN 618 (N05E50) THE SOURCE
OF MOST OF TODAY'S ACTIVITY IS STILL GROWING BUT AT A SLOWER
RATE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A LOW LEVEL.
IF DEVELOPMENT CONTINUES IN RGN 618 A CLASS M EVENT IS POSSIBLE.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST
EIGHT HOURS AND IS EXPECTED TO BE UNSETTLED CHANGING TO SLIGHTLY
ACTIVE THE LATTER PORTION OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 01-03 AUG

CLASS M 15/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 JUL 083

PREDICTED 01-03 AUG 083/085/086

90-DAY MEAN 31 JUL 072

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 30 JUL 03

ESTIMATED AFR/ΔP 31 JUL 04/04

PREDICTED AFR/ΔP 01-03 AUG 09/07 - 11/11 - 13/15

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HFUS 1 BOU 011430
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 213B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1430Z 01 AUGUST 1975

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST NINE HOURS.
SEVERAL CLASS C X-RAY BURSTS HAVE OCCURRED, MOST OF THEM CORRELATED
WITH SUBFLARES AND PLAGE ENHANCEMENTS IN THE COMPLEX OF REGIONS
617 (N03E52) AND 618 (N05E51). STRONG GRADIENTS PRESENTLY EXIST
IN THE ABNORMALLY-ORIENTED MAGNETIC FIELDS OF THIS COMPLEX.

IB. A LOW LEVEL OF SOLAR ACTIVITY IS EXPECTED DURING THE RE-
MAINDER OF THE FORECAST PERIOD. THE COMPLEX OF REGIONS 617/618
IS EXPECTED TO CONTINUE TO PRODUCE MINOR FLARES AND MAY EVENTUALLY
PRODUCE A CLASS M EVENT.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE DURING
THE PAST NINE HOURS. UNSETTLED CONDITIONS ARE LIKELY DURING MUCH
OF THE REMAINDER OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 01 - 03 AUG

CLASS M 15/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 JULY 83

PREDICTED 01 - 03 AUG 83/85/86

90-DAY MEAN 31 JULY 72

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 30 JULY 03

ESTIMATED AFR/AP 31 JULY 04/04

PREDICTED AFR/AP 01 - 03 AUG 10/10 - 11/11 - 13/15

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HFUS 1 BOU 012200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO
SDF NUMBER 213
JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 01 AUG 1975

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST EIGHT HOURS, BUT A VARIETY OF MINOR EVENTS HAVE OCCURRED. THE MOST ENERGETIC OF THESE EVENTS WAS A CLASS C5 SURGE THAT OCCURRED AT 01/1700Z NEAR N07E90. ANOTHER VERY SIMILAR EVENT OCCURRED AT 01/2040Z AT N04E90. ALL PRESENTLY-AVAILABLE DATA SUGGEST THAT A SIGNIFICANT ACTIVE CENTER CAPABLE OF PRODUCING ENERGETIC ACTIVITY NOW EXISTS JUST BEHIND THE EAST LIMB NEAR N05. THIS REGION IS A NEW CENTER AND DEVELOPED ON THE BACK SIDE OF THE SUN. REGIONS 617 AND 618 (N03E46 AND N06E44 RESPECTIVELY) REMAIN MAGNETICALLY CONNECTED AS AN INTERACTING COMPLEX. STRONG MAGNETIC GRADIENTS EXIST ALONG THE MAIN NEUTRAL LINE, AND THE OVERALL MAGNETIC CONFIGURATION OF THE COMPLEX REMAINS UNSTABLE BECAUSE THE STRONG LEADING-POLARITY SPOT OF REGION 617 LIES IN CLOSE PROXIMITY TO STRONG FOLLOWING-POLARITY SPOTS OF REGION 618 TO THE NORTHWEST. THIS COMPLEX HAS PRODUCED SEVERAL CLASS C SUBFLARES DURING THE PAST 24 HOURS, AND SLOW DEVELOPMENT MAY STILL BE UNDERWAY THERE. REGION 615 (N08W97) HAS PASSED OVER THE WEST LIMB AND HAS PRODUCED OCCASIONAL MINOR SURGE ACTIVITY. OTHER REGIONS ARE STABLE. THE X-RAY BACKGROUND LEVEL ON THE GOES SATELLITES HAS BEEN NEAR OR ABOVE CLASS C1 LEVEL SINCE 01/1000Z.

IB. OCCASIONAL CLASS C EVENTS ARE EXPECTED DURING THE THREE-DAY FORECAST PERIOD. THE COMPLEX OF REGIONS 617 AND 618 AS WELL AS THE NEW REGION NEAR N05E90 ARE EXPECTED TO PRODUCE THIS ACTIVITY. FURTHER EVALUATION OF THE NEW REGION WILL BE REQUIRED BEFORE ITS CONFIGURATION AND SIZE ARE KNOWN.

II. THE GEOMAGNETIC FIELD BECAME DISTURBED TO ACTIVE LEVELS ABRUPTLY AT 31/2230Z. GENERALLY QUIET CONDITIONS RETURNED BY 01/1200Z, AND UNSETTLED CONDITIONS BEGAN AT 01/1938Z. GENERALLY UNSETTLED CONDITIONS ARE EXPECTED TO CONTINUE UNTIL 04 AUGUST, WHEN A RECURRENT DISTURBANCE IS EXPECTED TO BEGIN.

III. EVENT PROBABILITIES 02-04 AUG
CLASS M 40/45/45
CLASS X 05/05/05
PROTON 01/02/02
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX
OBSERVED 01 AUG 89
PREDICTED 02-04 AUG 92/94/95
90-DAY MEAN 01 AUG 73

V. GEOMAGNETIC A INDICES
OBSERVED FREDERICKSBURG 31 JULY 04
ESTIMATED AFR/AP 01 AUG 12/12
PREDICTED AFR/AP 02-04 AUG 11/11 - 13/14 - 26/40

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