

HFUS 1 BOU 030450

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 215A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0500Z 03 AUGUST 1975

IA. SOLAR ACTIVITY CONTINUES AT A MODERATE LEVEL WITH A LARGE 1B FLARE OCCURRING IN RGN 618 (N06E25) AT 0359Z. THE FLARE WAS ACCOMPANIED BY XRAY BURST REGISTERING M7 LEVEL ON VELA AND M4 ON SMS SATELLITES. BOTH THIS RGN AND RGN 619 (N05E90) REMAIN DYNAMIC IN APPEARANCE AND ARE CAPABLE OF PRODUCING ADDITIONAL ENERGETIC EVENTS.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT THE MODERATE LEVEL WITH FREQUENT CLASS C AND SPORADIC CLASS M FLARES OCCURRING DURING THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST EIGHT HOURS AND IS EXPECTED TO BE QUIET TO UNSETLED UNTIL THE ARRIVAL OF A RECURRENT DISTURBANCE 04 AUGUST.

III. EVENT PROBABILITIES 03 AUG - 05 AUG

CLASS M 70/70/70

CLASS X 05/10/10

PROTON 02/02/03

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 AUG 93

PREDICTED 03 AUG - 05 AUG 95/97/97

90-DAY MEAN 02 AUG 73

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 01 AUG 13

ESTIMATED AFR/AP 02 AUG 08/07

PREDICTED AFR/AP 03 AUG - 05 AUG 13/16 - 26/40 - 24/34

SOLTERWARN

BT

HFUS 1 BOU 031430

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 215B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1430Z 03 AUGUST 1975

IA. SOLAR ACTIVITY REACHED MODERATE LEVELS DURING THE PAST 16 HOURS. A LARGE 1B FLARE (M5 IN X-RAYS) OCCURRED IN REGION 618 (N06E20) AT 03/0359Z WITH APPROPRIATE IONOSPHERIC RESPONSES (SUDDEN PHASE ANOMALIES AND SHORT-WAVE FADES). SINCE THAT TIME MOST OF THE FLARE ACTIVITY HAS BEEN IN REGION 619 (N06E75). A SUB-NORMAL (M1) AT 0541Z, A SUB-BRILLIANT (C6) AT 0953Z, AND A SUB-NORMAL (M2) AT 1220Z HAVE ALL BEEN REPORTED IN REGION 619.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A MODERATE LEVEL WITH FREQUENT C-CLASS AND SPORADIC M-CLASS FLARES OCCURRING DURING THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO MILDLY UNSETLED DURING THE PAST 16 HOURS. THE FIELD IS EXPECTED TO BECOME ACTIVE ON 04 AUGUST AND TO REMAIN ACTIVE THROUGH THE END OF THE PERIOD.

III. EVENT PROBABILITIES 03 AUG-05 AUG 1975

CLASS M 70/70/70

CLASS X 10/20/20

PROTON 02/02/03

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 AUG 93

PREDICTED 03-05 AUG 95/97/97

90-DAY MEAN 02 AUG 73

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 01 AUG 13

ESTIMATED AFR/AP 02 AUG 08/05

PREDICTED AFR/AP 03-05 AUG 13/16 - 26/40 - 24/34

SOLTERWARN

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HFUS 1 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 215

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 03 AUGUST 1975

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. THE TWO ACTIVE CENTERS RESPONSIBLE FOR THE INCREASED ACTIVITY ARE REGIONS 617/618 (N04E18) AND REGION 619 (N06E70). THE REGION 617/618 COMPLEX CONTAINS A MAGNETIC DELTA CONFIGURATION AND REGION 619 IS SUSPECTED OF HARBORING A DELTA. BOTH CENTERS HAVE PRODUCED M-CLASS X-RAY EVENTS DURING THE PAST 24 HOURS. THE LARGEST EVENT DURING THE PERIOD WAS AN M5/1B AT 03/0359Z IN REGION 618. THIS EVENT WAS ACCCOMPANIED BY NUMEROUS LOW-LEVEL IONOSPHERIC RESPONSES. AN M1/SN AT 0535Z, A C6/SB AT 0954Z, AND AN M2/SN AT 1221Z WERE ALL OBSERVED IN REGION 619. IN GENERAL, REGION 619 HAS BEEN FLARING AT TWICE THE FREQUENCY OF REGIONS 617/618, BUT THE 617/618 COMPLEX HAS REMAINED NEARLY FLARE BRIGHT ALL DAY. ALSO, THE INFREQUENT EVENTS SEEN IN REGIONS 617/618 TEND TO BE MORE ENERGETIC THAN THE FLARES OBSERVED IN REGION 619.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE MODERATE THROUGH THE FORECAST PERIOD. THE TWO ACTIVE CENTERS CAN BE EXPECTED TO PRODUCE NUMEROUS C-CLASS EVENTS AND OCCASIONAL M-CLASS FLARES. IF GROWTH CONTINUES, AN X-CLASS FLARE MAY OCCUR DURING THE FORECAST PERIOD. SO FAR, REGIONS 617/618 ARE SHOWING NO SIGN OF STABILIZING. IN FACT, AN ISOLATED POLE OF LEADER POLARITY IS NOW EMERGING THROUGH THE TRAILER PORTION OF REGION 618. REGION 619 IS STILL TOO CLOSE TO THE LIMB TO BE PROPERLY ANALYZED.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BECOME ACTIVE ON 04 AUGUST AS PERSISTENT INTERPLANETARY MAGNETIC STRUCTURE RETURNS. THERE IS SOME POSSIBILITY THAT CORONAL STRUCTURE WHICH LEADS REGIONS 617/618 MAY CAUSE MAGNETIC LEVELS TO GO CONSIDERABLY HIGHER THAN CURRENTLY PREDICTED LEVELS.

III. EVENT PROBABILITIES 04 AUGUST - 06 AUGUST

CLASS M 75/80/80

CLASS X 15/20/20

PROTON 03/03/04

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 AUG 97

PREDICTED 04 AUG - 06 AUG 98/98/99

90-DAY MEAN 03 AUG 73

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 02 AUG 08

ESTIMATED AFR/AP 03 AUG 04/05

PREDICTED AFR/AP 04 AUG - 06 AUG 15/32 - 25/31 - 23/28

SOLTERWARN

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