

HFUS 1 BOU 090500  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO  
SDF NUMBER 221A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1500Z 09 AUGUST 1975

IA. SOLAR ACTIVITY HAS BEEN LOW. A BRIGHT SUBFLARE (CLASS C7)  
OCCURRED AT 0216 IN REGION 619 (N09E04) WHERE IMPORTANT SPOT  
GROWTH HAS OCCURRED AMONG THE FOLLOWER SPOTS. REGION 621 (N12W02)  
NORTH OF THE 619 LEADER SPOT IS ALSO BECOMING MORE ACTIVE.  
REGION 618 (N06W52) HAS DEVELOPED AN ACTIVE DARK FILAMENT ALONG  
THE HIGH-GRADIENT PORTION OF ITS NEUTRAL LINE.

IB. CONTINUED CLASS C EVENTS ARE EXPECTED. POTENTIAL STILL  
EXISTS FOR CLASS M EVENTS IN REGION 618. ITS DISK LOCATION  
IS NOW FAVORABLE FOR TRANSMITTING A SMALL PROTON EVENT TO EARTH  
SHOULD A MAJOR EVENT OCCUR.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. UNSETTLED CONDITIONS  
ARE EXPECTED THROUGH THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 09 AUG-11 AUG  
CLASS M 70/60/60  
CLASS X 10/05/05  
PROTON 10/10/10  
PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX  
OBSERVED 08 AUG 120  
PREDICTED 09-11 AUG 119/118/118  
90-DAY MEAN 08 AUG 76

V. GEOMAGNETIC A INDICES  
OBSERVED FREDERICKSBURG 07 AUG 04  
ESTIMATED AFR/AP 08 AUG 16/26  
PREDICTED AFR/AP 09-11 AUG 13/14 - 13/17 - 13/18  
SOLTERWARN

BT

HFUS 1 BOU 091430  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 221B  
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1430Z 09 AUGUST 1975  
IA. SOLAR ACTIVITY HAS REMAINED LOW.  
IB. CONTINUED CLASS C EVENTS ARE EXPECTED. POTENTIAL STILL  
EXISTS FOR CLASS M EVENTS IN REGION 618. ITS DISK LOCATION  
IS NOW FAVORABLE FOR TRANSMITTING A SMALL PROTON EVENT TO EARTH  
SHOULD A MAJOR EVENT OCCUR.  
II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. UNSETTLED CONDITIONS  
ARE EXPECTED THROUGH THIS FORECAST PERIOD.  
III. EVENT PROBABILITIES 09 AUG-11 AUG  
CLASS M 70/60/60  
CLASS X 10/05/05  
PROTON 10/10/10  
PCAF YELLOW  
IV. OTTAWA 10.7 CM FLUX  
OBSERVED 08 AUG 120  
PREDICTED 09-11 AUG 119/118/118  
90-DAY MEAN 08 AUG 76  
V. GEOMAGNETIC A INDICES  
OBSERVED FREDERICKSBURG 07 AUG 04  
ESTIMATED AFR/AP 08 AUG 16/26  
PREDICTED AFR/AP 09-11 AUG 10/17 - 13/17 - 13/18  
SOLTERWARN  
BT

GEOALERT WWA 220 090300  
91208 11801 21200 30160 40990  
45006 04000 10609 00000 44310 00000  
40012 00000  
80609 77773 45006 ERUPTIVE 10609 ERUPTIVE  
44310 QUIET 40012 QUIET  
SOLALERT 09/11  
MAGQUIET  
FIN  
SOLTERWARN

HFUS 1 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 221

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 09 AUG 1975

IA. SOLAR ACTIVITY HAS BEEN LOW. OCCASIONAL CLASS C FLARES HAVE BEEN OBSERVED IN REGIONS 618 (N06W62) AND 619 (N09W05). BOTH OF THESE CENTERS HAVE ALTERED LITTLE. THE MOST IMPORTANT CHANGES IN APPEARANCE HAVE BEEN AN INCREASE IN THE NUMBER OF ASSOCIATED SMALL FILAMENTS IN EACH REGION AND SPOT SIMPLIFICATION AND AREAL DECREASE, ESPECIALLY IN REGION 618. OLD REGIONS 609/610/612 HAVE RETURNED OVER THE SOUTHEAST LIMB AS WEAK PLAGES VISIBLE PRIMARILY IN THE CALCIUM LINE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH CLASS C FLARES PROBABLE AND ONE OR TWO CLASS M FLARES POSSIBLE. AS THE CURRENT REGIONS DIFFUSE AND SIMPLIFY, PROBABILITIES FOR ENERGETIC FLARES WILL DECREASE BUT MANY REGIONS SIMILAR TO THESE TWO HAVE BEEN OBSERVED TO PRODUCE AN ISOLATED MAJOR FLARE AT ABOUT THE TIME THE LAST SPOTS DISAPPEAR. THIS PHENOMENON HAS BEEN KNOWN TO ACT IN CONCERT WITH THE WELL KNOWN WEST LIMB EFFECT TO PRODUCE UNEXPECTED FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE. IT IS EXPECTED TO CONTINUE IN THE SAME PATTERN THROUGH THE FORECAST PERIOD. THE POSITION OF REGION 618 IS SUCH THAT A FLARE OF MODERATE CLASS M INTENSITY AND A THERMAL PHASE GREATER THAN 15 OR 20 MINUTE DURATION WOULD BE EXPECTED TO PRODUCE A DETECTABLE POLAR CAP ABSORPTION EVENT.

III. EVENT PROBABILITIES 10 - 12 AUG

CLASS M 65/55/50

CLASS X 05/05/05

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 AUG 113

PREDICTED 10 - 12 AUG 95/90/88

90-DAY MEAN 09 AUG 76

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 AUG 15

ESTIMATED AFR/AP 09 AUG 11/17

PREDICTED AFR/AP 10 - 12 AUG 15/17 - 15/17 - 16/20

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