

HFUS 1 BOU 020500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 214A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 02 AUGUST 1975

IA. SOLAR ACTIVITY IS NOW AT THE MODERATE LEVEL AS AN M2 XRAY
EVENT OCCURRED AT 0105Z. THIS EVENT IS PROBABLY ASSOCIATED
WITH THE NE LIMB RGN 619 (E90N05) WHICH PRODUCED A SB FLARE
AT 01/2110Z. NO MAJOR CHANGES WERE REPORTED IN THE REGIONS
PRESENTLY ON THE DISK.

IB. SOLAR ACTIVITY IS EXPECTED TO BE AT THE MODERATE LEVEL
HOWEVER AN ACCURATE ANALYSIS MUST AWAIT THE LIMB TRANSIT OF
RGN 619.

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

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 089

PREDICTED 02-04 AUG 092/094/095

90-DAY MEAN 01 AUG 073

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 31 JUL 04

ESTIMATED AFR/AP 01 AUG 12/11

PREDICTED AFR/AP 02-04 AUG 08/11 - 13/16 - 26/40

SOLTERWARN

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HFUS 1 BOU 021430
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 214B
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1430Z 02 AUG 1975

IA. SOLAR ACTIVITY HAS REMAINED MODERATE DURING THE PAST NINE HOURS. THE MOST ENERGETIC EVENTS REPORTED WERE TWO CLASS M1 EVENTS WITH MAXIMA AT 02/1023Z AND 1113Z. ALTHOUGH NO OPTICAL EVENT WAS REPORTED AT 02/1023Z, A SUB-BRILLIANT FLARE IN REGION 619 (N05E90) ACCOMPANIED THE 1113Z X-RAY BURST. NUMEROUS LIMB EVENTS AND X-RAY ENHANCEMENTS HAVE OCCURRED RECENTLY, SUGGESTING THAT REGION 619 IS ESPECIALLY DYNAMIC NOW. NEITHER PLAGE NOR SPOTS OF REGION 619 ARE VISIBLE, SO VISUAL EVALUATION OF THIS ACTIVE CENTER CAN NOT YET BE MADE. REGIONS 617 AND 618 (N03E38 AND N06E35) HAVE BOTH SHOWN MODERATE RECENT DEVELOPMENT AND MAGNETIC GRADIENTS REMAIN STRONG ALONG THE NEUTRAL LINE THAT WINDS THROUGH THE PLAGE OF THIS COMPLEX. NO SIGNIFICANT RECENT ENERGETIC ACTIVITY HAS OCCURRED IN REGIONS 617 AND 618 OR ELSEWHERE ON THE DISK.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE. REGIONS 617, 618, AND 619 ARE ALL BELIEVED CAPABLE OF PRODUCING CLASS M EVENTS. CLASS M EVENT PROBABILITIES HAVE BEEN RAISED DUE TO RECENT ENERGETIC ACTIVITY IN REGION 619. REGION 619 MAY PRODUCE CONSIDERABLE INTERESTING LIMB ACTIVITY NEAR NE05 DURING THE NEXT 24 - 36 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED DURING THE PAST NINE HOURS. QUIET TO UNSETTLED CONDITIONS ARE EXPECTED UNTIL THE ARRIVAL OF A RECURRENT DISTURBANCE 04 AUG.

III. EVENT PROBABILITIES 02 - 04 AUGUST

CLASS M 60/60/60

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 93/95/97

90-DAY MEAN 01 AUG 73

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 31 JULY 04

OBSERVED AFR/ESTIMATED AP 01 AUG 13/11

PREDICTED AFR/AP 02 - 04 AUG 08/08 - 13/16 - 26/40

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GEOALERT WWA 214 020300

91201 10671 20890 30120 40020

47708 01000 14503 00000 14306 05000

19005 01010 49808 02000

80602 77773 47708 QUIET 14503 QUIET

14306 ERUPTIVE 19005 CAUTION ERUPTIVE

49808 CAUTION ERUPTIVE

SOLALERT 02/04 MAGALERT RECURRENCE 04/06

STRATWARM ALERT/FRIDAY/STRATWARM EXISTS ANTARCTICA. EXTENSIVE WARM SYSTEM SLOPING WESTWARD WITH HEIGHT WITH UNUSUALLY STRONG WARMING AROUND 73S 50E JULY 29 AT 2 MB LEVEL. WESTWARD RETROGRESSION INDICATED AFTER 25 JULY.

FIN

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HFUS 1 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 214

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 02 AUGUST 1975

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. REGION 619, NOW CROSSING THE EAST LIMB AT N06E90, HAS PRODUCED NUMEROUS MILDLY ENERGETIC LIMB EVENTS AND FLARES. THE LARGEST RECENT X-RAY ENHANCEMENTS, ALL OF THEM BELIEVED TO HAVE BEEN PRODUCED IN REGION 619, WERE AS FOLLOWS: CLASS M2, LOOP PROMINENCE SYSTEM, 02/0105Z; CLASS M1, NO SPECIFIC OPTICAL EVENT, 02/1023Z; CLASS M1, SUB-BRILLIANT FLARE, 02/1113Z. NUMEROUS CLASS C EVENTS ALSO HAVE OCCURRED. A SINGLE LARGE H-TYPE SPOT THOUGHT TO BE THE LEADER OF REGION 619 HAS CROSSED THE LIMB AND NOW IS LOCATED AT N06E83. BRIGHT PLAGE ACCOMPANIED BY DOPPLER-SHIFTED SURGES LIES ON THE LIMB JUST EAST OF THE H-TYPE SPOT. ADDITIONAL PLAGE AND SPOTS ARE EXPECTED TO BECOME VISIBLE SOON IN REGION 619. REGIONS 617 (N03E31) AND 618 (N06E28) REMAIN PHYSICALLY CONNECTED AS A COMPLEX WITH STRONG MAGNETIC GRADIENTS. RECENT SPOT GROWTH IN REGION 618 HAS PRODUCED A WEAK DELTA CONFIGURATION WHERE UMBRAE OF OPPOSITE POLARITY ARE SURROUNDED BY THE SAME PENUMBRA. REGIONS 617 AND 618 HAVE PRODUCED ONLY A FEW CLASS C SUBFLARES DURING THE PAST 24 HOURS. OTHER REGIONS ARE RELATIVELY QUIET AND UNIMPRESSIVE.

IB. REGIONS 617, 618, AND 619 ARE EXPECTED TO PRODUCE NUMEROUS CLASS C EVENTS AND SPORADIC CLASS M FLARES DURING THE NEXT THREE DAYS. CLASS M EVENT PROBABILITIES HAVE BEEN RAISED, BOTH BECAUSE OF THE DYNAMIC BEHAVIOR OF REGION 619 AND BECAUSE OF THE CONTINUED DEVELOPMENT OF THE 617/618 COMPLEX. THE PROBABILITY OF A LARGE CLASS M OR SMALL CLASS X FLARE ALSO HAS INCREASED. SINCE REGION 619 CAN NOT YET BE EVALUATED STRUCTURALLY, MORE THAN THE NORMAL AMOUNT OF UNCERTAINTY NECESSARILY SURROUNDS THE EVENT PROBABILITIES OF PART III BELOW.

II. QUIET TO UNSETTLED GEOMAGNETIC CONDITIONS HAVE OCCURRED DURING THE PAST 24 HOURS. QUIET TO UNSETTLED CONDITIONS ARE EXPECTED UNTIL THE ARRIVAL OF A RECURRENT DISTURBANCE 04 AUG.

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

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