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HFUS 1 BOU 100600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 191A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 10 JULY 1974

IA. SOLAR FLARE ACTIVITY HAS BEEN MODERATE DURING THE PAST 8 HOURS.
A CLASS M1 EVENT HAD ITS MAXIMUM AT 2343 U.T., AND A CLASS C2
EVENT REACHED MAXIMUM AT 0411 TODAY. AS REGION 433 APPROACHES WEST
LIMB, MORE FLARES ARE REPORTED AS HAVING ASSOCIATED SURGES. REGION
438 (S08E60) IS DEVELOPING TRAILER SPOTS, BUT ONLY MINOR FLARE
ACTIVITY IS REPORTED.

IB. ENERGETIC FLARES AND LIMB EVENTS ARE EXPECTED FROM ACTIVE
REGION 433.

II. THE GEOMAGNETIC FIELD CONTINUES SLIGHTLY ACTIVE. NOTE THAT THE
FLARE WITH MAXIMUM AT 09/1359 U.T. HAD AN ASSOCIATED DEKAMETRIC
TYPE II. THE INFERRED SHOCK VELOCITY AT THE SUN MAY RESULT IN A
MINOR GEOMAGNETIC DISTURBANCE ON 13 JULY AT AROUND 01 HOURS U.T.
RECURRENT GEOMAGNETIC DISTURBANCE IS EXPECTED LATER TODAY.

III. EVENT PROBABILITIES NO CHANGE

IV. OTTAWA 10.7 CM FLUX NO CHANGE

V. GEOMAGNETIC A INDICES NO CHANGE

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HFUS 1 BOU 101400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 191B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 10 JULY 1974

IA. SOLAR ACTIVITY HAS BEEN VERY LOW DURING THE PAST 8 HOURS. NO FLARES HAVE BEEN OBSERVED AND ONLY MINOR SURGES HAVE BEEN OBSERVED WHERE REGION 433 (S16W90) IS MAKING ITS WEST LIMB PASSAGE. REGION 438 (S08E58) APPEARS TO BE STABLE AND QUIET. THE REST OF THE DISK IS QUIET.

IB. LIMB EVENTS ARE EXPECTED FROM DEPARTING REGION 433.

II. THE GEOMAGNETIC FIELD HAS BECOME ACTIVE ONCE AGAIN WITH THE DISTURBANCE REACHING MINOR STORM LEVELS. THE ACTIVITY IS THE RESULT OF THE RECURRENT DISTURBANCE. ACTIVE CONDITIONS SHOULD CONTINUE THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 11 JULY - 13 JULY

CLASS M 80/70/60

CLASS X 40/10/10

PROTON 20/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 JULY 92

PREDICTED 10 JULY - 12 JULY 90/88/85

90-DAY MEAN 09 JULY 92

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 JULY 27

ESTIMATED AFR/AP 09 JULY 13/17

PREDICTED AFR/AP 10 JULY - 12 JULY 25/39 - 23/35 - 20/29

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HFUS BOU

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 191

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 10 JULY 1974

- IA. SOLAR ACTIVITY DROPPED ABRUPTLY DURING THE PAST 24 HOURS AS REGION 433 (SW16) PASSED OUT OF SIGHT OVER THE WEST LIMB. ONLY MINOR SURGING HAS BEEN OBSERVED ON THE SOUTHWEST LIMB. A POSSIBLE NEW REGION 441 (S08E56) IS DEVELOPING BEHIND REGION 438 (S08E49). THIS COMPLEX HAS BEEN SHOWING SLOW GROWTH AND HAS PRODUCED TWO C-CLASS SUBFLARES TODAY.
- IB. WHILE MAJOR LIMB EVENTS ARE STILL QUITE POSSIBLE, REGION 433 SEEMED TO BE DECLINING VERY RAPIDLY AT WEST LIMB AND MAY HAVE LOST ALL OF ITS ENERGETIC CAPACITY. THE REGION 438/441 COMPLEX IS SHOWING ONLY SLOW DEVELOPMENT AND DOES NOT APPEAR TO BE CAPABLE OF ENERGETIC FLARE PRODUCTION.
- II. THE GEOMAGNETIC FIELD BECAME ACTIVE AT ABOUT 10/0000Z. THE FIELD SHOULD APPROACH MINOR MAGNETIC STORM LEVELS DURING THE NEXT 24 HOURS AND THEN ACTIVITY SHOULD GRADUALLY SUBSIDE.

III. EVENT PROBABILITIES 11 - 13 JULY

CLASS M 60/40/20

CLASS X 20/15/10

PROTON 10/07/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 JULY 85

PREDICTED 11 - 13 JULY 83/82/82

90-DAY MEAN 10 JULY 91

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 9 JULY 14

ESTIMATED AFR/AP 10 JULY 22/28

PREDICTED AFR/AP 11 - 13 JULY 25/33 - 20/24 - 17/20

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LIMB, MORE FLARES ARE REPORTED AS HAVING ASSOCIATED SURGES. REGION
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ACTIVITY IS REPORTED.

IB. ENERGETIC FLARES AND LIMB EVENTS ARE EXPECTED FROM ACTIVE
REGION 433.

II. THE GEOMAGNETIC FIELD CONTINUES SLIGHTLY ACTIVE. NOTE THAT THE
FLARE WITH MAXIMUM AT 09/1359 U.T. HAD AN ASSOCIATED DEKAMETRIC
TYPE II. THE INFERRED SHOCK VELOCITY AT THE SUN MAY RESULT IN A
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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 191B
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 10 JULY 1974

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III. EVENT PROBABILITIES 11 JULY - 13 JULY

CLASS M 80/70/60

CLASS X 40/10/10

PROTON 20/05/05

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OBSERVED FREDERICKSBURG 08 JULY 27

ESTIMATED AFR/AP 09 JULY 13/17

PREDICTED AFR/AP 10 JULY - 12 JULY 25/39 - 23/35 - 20/29

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HFUS BOU

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

LTS SDF NUMBER 191

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200 Z 10 July 1974

I.A. Solar activity dropped abruptly during the past 24 hours as Region 433 (SW16) passed out of sight over the west limb. Only minor swaying has been observed on the southwest limb. A possible new Region 441 (S08E56) is developing behind Region 438 (S08E49). This complex has been showing slow growth and has produced two C-class subflares today.

I.B. While major limb events are still quite possible, Region 433 seemed to be declining very rapidly at west limb and may have lost all of its energetic capacity. The Region 0438/441 complex is showing only slow development and does not appear to be capable of energetic flare production.

II. The geomagnetic field became active at about 10/0000Z. The field should approach minor magnetic storm levels during the next 24 hours and then activity should gradually subside.

III. EVENT PROBABILITIES 11 / 10 / 10 - 13 July
CLASS M 60 / 40 / 20
CLASS X 20 / 15 / 10
PROTON 10 / 07 / 05
PCAF Green

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 - 10 July 85
PREDICTED 11 - 13 July 83 / 82 / 82
90-DAY MEAN 10 July 91

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG

ESTIMATED A_{FR/AP}

PREDICTED A_{FR/AP}

SOLTERWARN LTS

9 July 14
10 July 22 / 28
13 July 25 / 33 - 20 / 24 - 17 / 20

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