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HFUS 1 BOU 080600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 189A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 08 JULY 1974

IA. AN APPARENT 1N FLARE IN REGION 433 (S12W60) WAS AN M1 X-RAY
EVENT (MAXIMUM AT 2122Z). AN IMPORTANCE TWO SWF OF 20 MINUTES
DURATION (10-20 MHZ) ACCOMPANIED THIS EVENT. REGION 433 CONTINUES
STRUCTURAL RECONFIGURATION; HOWEVER THE DELTA CONFIGURATION REMAINS.
OTHER REGIONS REMAIN SIMPLE STRUCTURALLY.

IB. MAJOR FLARE ACTIVITY IS STILL EXPECTED FROM REGION 433.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. IT IS EXPECTED TO BE
ACTIVE THROUGH THE FORECAST PERIOD. STORM CONDITIONS ARE POSSIBLE
IF A MAJOR FLARE OCCURS IN REGION 433. THE POLAR CAP ABSORPTION
WHICH BEGAN LATE ON 03 JULY ENDED 07/2100Z. THE FORBUSH DECREASE
WHICH BEGAN NEAR 06/1900Z CONTINUES; MAXIMUM ON THE THULE NEUTRON
MONITOR WAS 10 PER CENT AT 07/1900Z.

III. EVENT PROBABILITIES 08 - 10 JULY

CLASS M 90/90/80

CLASS X 60/60/40

PROTON 40/30/30

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX NO CHANGE

V. GEOMAGNETIC A INDICES NO CHANGE

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HFUS 1 BOU 081400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 189B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 08 JULY 1974

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST EIGHT HOURS. THE MOST ENERGETIC FLARE REPORTED WAS A CLASS C7 SUBNORMAL FLARE IN REGION 433 (S12W65) AT 08/1317Z. MINOR IONOSPHERIC EFFECTS ACCOMPANIED THIS FLARE. REGION 433 HAS CONTINUED ITS PATTERN OF DECAY, BUT A WEAK MAGNETIC DELTA CONFIGURATION STILL MAY BE PRESENT IN THE TRAILING SECTION. A NEW REGION NUMBER 438, IS CROSSING THE EAST LIMB NEAR S08E90. THIS REGION CONTAINS A MODERATE-SIZED H-TYPE SPOT AND ENHANCED PLAGE, BUT THIS REGION'S PROXIMITY TO THE LIMB NOW PREVENTS A MORE COMPLETE DESCRIPTION.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE, WITH SPORADIC ENERGETIC ACTIVITY LIKELY FROM REGION 433. THERE IS STILL A POSSIBILITY THAT REGION 433 MAY PRODUCE ADDITIONAL MAJOR ACTIVITY AS IT DECAYS. NEW REGION 438 SHOULD BE WATCHED FOR DYNAMIC BEHAVIOR.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST EIGHT HOURS. ACTIVE CONDITIONS ARE LIKELY THROUGH THE FORECAST PERIOD. SATELLITE PARTICLE COUNTING RATES HAVE CONTINUED TO DECLINE GRADUALLY TOWARD BACKGROUND LEVELS. SHOULD AN ADDITIONAL MAJOR FLARE OCCUR IN REGION 433 A MAGNETIC STORM AND AN ADDITIONAL PARTICLE ENHANCEMENT COULD OCCUR.

III. EVENT PROBABILITIES 08 - 10 JULY

CLASS M 90/90/80

CLASS X 60/60/40

PROTON 40/30/30

PCAF IN PROGRESS-SEE PART II ABOVE

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JULY 111

PREDICTED 08-10 JULY 115/110/100

90-DAY MEAN 07 JULY 92

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 06 JULY 116

ESTIMATED AFR/AP 07 JULY 13/15

PREDICTED AFR/AP 08-10 JULY 22/27 - 23/29 - 22/28

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HFUS 1 BOU

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 189

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 8 JULY 1974

IA. SOLAR FLARE ACTIVITY HAS BEEN MODERATE DURING THE LAST 24 HOURS. ACTIVE REGION 433 (S14W66) HAS PRODUCED 2 CLASS M EVENTS (AT 2122 U.T. YESTERDAY AND 1542 TODAY). THIS REGION CONTINUES TO DECAY IN WHITE LIGHT AND H-ALPHA, BUT ITS MAGNETIC COMPLEXITY HAS NOT DIMINISHED. A NEW ACTIVE REGION(438) IS CROSSING EAST LIMB, WITH CORONAL RAIN, SURGING, AND PROMINENCE ACTIVITY REPORTED.

IB. FLARE ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE, AND IS EXPECTED TO REMAIN SLIGHTLY ACTIVE DURING THE FIRST PART OF THE FORECAST PERIOD. PROTON FLUXES AT SATELLITE HEIGHT ARE CONTINUING TO DECAY TOWARD QUIET BACKGROUNDS, BUT FURTHER PARTICLE INJECTIONS ARE POSSIBLE.

III. EVENT PROBABILITIES 9-11 JULY 1974

CLASS M 90/80/80

CLASS X 60/40/40

PROTON 40/40/40

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 8 JULY 103

PREDICTED 9-11 JULY 98/94/91

90-DAY MEAN 8 JULY 92

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 7 JULY 16

ESTIMATED AFR/AP 8 JULY 26/35

PREDICTED AFR/AP 9-11 JULY 17/20 16/18 14/16

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