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HFUS 1 BOU 230600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 204A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 23 JULY 1974

IA. SOLAR ACTIVITY REMAINS VERY LOW, WITH LITTLE CHANGE ON THE
VISIBLE DISK. A SLOW CLIMB IN 1-8A X-RAY BACKGROUND LEVELS BEGAN
ABOUT 22/2300Z AND REACHED A MAXIMUM AT 23/0023Z, AT WHICH TIME
BACKGROUND LEVELS HAD REACHED CLASS C0 THRESHOLD. .5-3A XRAYS
SHOWED NO ENHANCEMENT, LEADING TO SPECULATION THAT THIS ENHANCEMENT
WAS DUE TO ACTIVITY BEHIND THE LIMB.

IB. CONTINUED RISE-AND-FALL X-RAY BACKGROUNDS STRONGLY SUGGEST THAT
REGION 433 WILL ROUND THE LIMB WITHIN 36 HOURS WITH ENERGETIC
POTENTIAL.

II. A GEOMAGNETIC STORM COMMENCED GRADUALLY AT 23/0130Z. ACTIVE TO
STORM CONDITIONS ARE EXPECTED FOR 48 HOURS.

III. NO CHANGE.

IV. NO CHANGE.

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 JULY 09

ESTIMATED AFR/AP 22 JULY 09/10

PREDICTED AFR/AP 23-25 JULY 26/35-26/35-22/30

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HFUS 1 BOU 231400
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 204B
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 23 JULY 1974
IA. SOLAR ACTIVITY CONTINUED AT A LOW LEVEL DURING THE PAST SIX
HOURS AS VISIBLE FEATURES REMAINED BASICALLY UNCHANGED.
IB. SOLAR ACTIVITY WILL CONTINUE AT ITS PRESENT LEVEL UNTIL THE
RETURN OF OLD RGN 433 WHICH SHOULD COMPLETE LIMB TRANSIT TOWARD THE
END OF THIS FORECAST PERIOD.
II. THE GEOMAGNETIC DISTURBANCE WHICH BEGAN NEAR 23/0130 UT IS
EXPECTED TO CONTINUE FOR THE DURATION OF THIS FORECAST PERIOD.
III. EVENT PROBABILITIES 23 JULY - 25 JULY
CLASS M 10/10/10
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. OTTAWA 10.7 CM FLUX
OBSERVED 22 JULY 93
PREDICTED 23 JULY - 25 JULY 97/99/101
90-DAY MEAN 22 JULY 90
V. GEOMAGNETIC A INDICES
OBSERVED FREDERICKSBURG 21 JULY 09
ESTIMATED AFR/AP 22 JULY 09/10
PREDICTED AFR/AP 23 JULY - 25 JULY 29/40 - 26/35 - 24/30
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HFUS BOU 232220

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 204

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 23 JULY 1974

IA. SOLAR FLARE ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS.
THE FLARES THAT HAVE BEEN OBSERVED HAVE BEEN SCATTERED BETWEEN THE
SEVERAL ACTIVE REGIONS. THE LARGEST FLARE WAS A C1 (SUBFAINT) IN
ACTIVE REGION 451 (S09E42) BEGINNING AT 1834 U.T. THE CORONA IN
PROXIMITY TO REGION 452 (S14E06) HAS BEEN SOMEWHAT DYNAMIC, AS
EVIDENCED BY DEKAMETRIC RADIO BURSTS (WITH POSITIONS REPORTED BY
CLARK LAKE OBSERVATORY). AT EAST LIMB, SUBSTANTIAL CORONAL ACTIV-
ITY, IN THE FORM OF ACTIVE PROMINENCES, CONTINUES. THE LEADING
PORTION OF OLD REGION 433 IS NOW VISIBLE (CURRENTLY CALLED REGION
454) AT S12E90. IT DOES NOT APPEAR DYNAMIC, ALTHOUGH THOROUGH
EVALUATION IS REQUIRED.

IB. SCATTERED CLASS C EVENTS ARE EXPECTED. CLASS M ACTIVITY IS NOT
VERY LIKELY.

II. THE GEOMAGNETIC FIELD BECAME ACTIVE TO MINOR STORM LEVEL, BE-
GINNING AT ABOUT 01 U.T., AS A DISTURBED SECTOR WAS ENCOUNTERED.
ALTHOUGH THIS IS A RECURRENT EVENT, NO FORBUSH DECREASE IS APPAR-
ENT. LOW ENERGY PROTON FLUXES AT SATELLITE HEIGHT ARE SLIGHTLY
ABOVE BACKGROUND, AND POLAR RIOMETERS ARE SHOWING SLIGHT ABSORPTION.

III. EVENT PROBABILITIES 24-26 JULY

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 JULY 95

PREDICTED 24-26 JULY 97/98/99

90-DAY MEAN 23 JULY 90

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 22 JULY 11

ESTIMATED AFR/AP 23 JULY 48/74

PREDICTED AFR/AP 24-26 JULY 52/81-36/53-22/28

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