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HOUS 2 BOU 140200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
14/0200Z APRIL 1973

I. SUNSPOT DATA FROM RAMEY AT 13/1143Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

0074 S08W67 357 0010 A 00 01 ALPHA

0077 S07W34 324 0130 D 09 43 BETA-GAMMA

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN IMP BEGIN MAX END CLASS

077 0N 13/0510Z 0515Z 0540Z S

III. AREAS OF SPECIAL INTEREST-

REGION 077 (S08W34) IS STILL PRODUCING NUMEROUS SUBFLARES AND
HAS POTENTIAL OF MAJOR FLARE ACTIVITY.

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 104A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 14 APRIL 1973

IA. REGION 077 (S08W40) PRODUCED ONLY CLASS C SUBFLARES THE PAST 24
HOURS. THE REGION SEEMS TO BE DECLINING SLOWLY IN H-ALPHA AND WHITE
LIGHT.

IB. CLASS C ACTIVITY IS EXPECTED TO CONTINUE AT A MODERATE RATE. A
SMALL CLASS M EVENT IS ALSO PROBABLE.

II. THE GEOMAGNETIC FIELD CONTINUES TO BE DISTURBED. AT PRESENT IT
IS A MINOR DISTURBANCE.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE.

CORRECTION SDF 103

IA. SHOULD READ ...AND FOUR OF THESE WERE CLASS C EVENTS.

(RPT C INSTEAD OF M)

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 FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
 SDF NUMBER 104B
 JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
 ISSUED 1300Z 14 APRIL 1973
 IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE TODAY. RGN 077(S07W48)
 HAS PRODUCED SEVERAL SUBFLARES, A FEW OF WHICH PROBABLY REACHED
 CLASS C X-RAY THRESHOLDS. THE REST OF THE DISC HAS BEEN QUIET.
 IB. ACTIVITY WILL CONTINUE LOW TO MODERATE AND WILL PROBABLY DECREASE
 WITH THE GRADUAL DECLINE OF RGN 077. RGN 077 MAINTAINS POTENTIAL
 FOR LOW CLASS M ACTIVITY.
 II. MINOR GEOMAGNETIC STORM CONDITIONS HAVE PREVAILED SO FAR TODAY,
 AND ACTIVE TO DISTURBED CONDITIONS ARE EXPECTED TO CONTINUE
 THROUGHOUT THE FORECAST PERIOD. THE PROTON ENHANCEMENT REPORTED
 BY ATS-1 BEGINNING 12 APR 1200Z PEAKED AT ABOUT 13 APR 0800Z AND
 HAS NOW DECLINED TO A FEW TIMES ABOVE BACKGROUND AT BOTH 5-21 MEV
 AND 21-70 MEV.
 III. EVENT PROBABILITIES 14 - 16 APR
 CLASS M 60/60/50
 CLASS X 10/10/05
 PROTON 10/05/05
 PCAF YELLOW
 IV. OTTAWA 10.7 CM FLUX
 OBSERVED 13 APR 100
 PREDICTED 14 - 16 APR 94/92/90
 90-DAY MEAN 13 APR 102
 V. GEOMAGNETIC A INDICES
 OBSERVED FREDERICKSBURG 12 APR 04
 ESTIMATED 13 APR 29
 PREDICTED 14 - 16 APR 28/28/28
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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 104B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 14 APRIL 1973

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE TODAY. RGN 077(S07W48)
HAS PRODUCED SEVERAL SUBFLARES, A FEW OF WHICH PROBABLY REACHED
CLASS C X-RAY THRESHOLDS. THE REST OF THE DISC HAS BEEN QUIET.

IB. ACTIVITY WILL CONTINUE LOW TO MODERATE AND WILL PROBABLY DECREASE
WITH THE GRADUAL DECLINE OF RGN 077. RGN 077 MAINTAINS POTENTIAL
FOR LOW CLASS M ACTIVITY.

II. MINOR GEOMAGNETIC STORM CONDITIONS HAVE PREVAILED SO FAR TODAY,
AND ACTIVE TO DISTURBED CONDITIONS ARE EXPECTED TO CONTINUE
THROUGHOUT THE FORECAST PERIOD. THE PROTON ENHANCEMENT REPORTED
BY ATS-1 BEGINNING 12 APR 1200Z PEAKED AT ABOUT 13 APR 0800Z AND
HAS NOW DECLINED TO A FEW TIMES ABOVE BACKGROUND AT BOTH 5-21 MEV
AND 21-70 MEV.

III. EVENT PROBABILITIES 14 - 16 APR

CLASS M 60/60/50

CLASS X 10/10/05

PROTON 10/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 APR 100

PREDICTED 14 - 16 APR 94/92/90

90-DAY MEAN 13 APR 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 12 APR 04

ESTIMATED 13 APR 29

PREDICTED 14 - 16 APR 28/28/28

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HFUS BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 104

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 14 APRIL 1973

IA. REGION 077 (S08W52) HAS PRODUCED SIX EVENTS OF CLASS C ENERGY SINCE REPORT 103. ONLY ONE OF THESE, WHICH PEAKED OPTICALLY AT 1442Z, PRODUCED MINOR IONOSPHERIC EFFECTS. K-CORONAMETER DATA (MAUNA LOA) INDICATED POSSIBLE RETURN TO THE EAST LIMB OF OLD REGIONS 061 AND 069 (N08 AND N09). ABSENCE OF GREEN CORONAL EMISSION (SACRAMENTO PEAK) SUGGESTS THAT THESE REGIONS ARE INACTIVE. A NEW SPOT GROUP, 080, WAS NOTED AT N02E35 TODAY.

IB. REGION 077 IS EXPECTED TO PRODUCE FROM THREE TO SIX CLASS C EVENTS DURING THE NEXT TWENTY-FOUR HOURS. A "LAST GASP" CAPABILITY OF PRODUCING A MODERATE ENERGY EVENT, IS RETAINED, ALTHOUGH IT IS CONSIDERED IMPROBABLE.

II. PROTON FLUXES AT SATELLITE HEIGHT HAVE ALMOST RETURNED TO QUIET VALUES. A MINOR GEOMAGNETIC STORM CONTINUES, BUT IS ABATING. THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 15 APR -17 APR

CLASS M 40/30/20

CLASS X 10/05/05

PROTON 10/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 APR 94

PREDICTED 15-17 APR 92/90/90

90-DAY MEAN 14 APR 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 13 APR 32

ESTIMATED 14 APR 29

PREDICTED 15-17 APR 21/18/18

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