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HOUS 2 BOU 130200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT  
130200Z APR 1973.

I. SUNSPOT DATA FROM BOULDER AT 121405Z.

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

0074 S08W56 359 0030 C 08 06 BETA

0077 S08W21 324 0110 D 09 47 BETA-GAMMA

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS:

NONE

III. AREAS OF SPECIAL INTEREST:

NONE

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SPAN

BT

Particle events belong in part II

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HFUS 1 BOU 130600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 103A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 13 APRIL 1973

IA. THE PROTON ENHANCEMENT THAT BEGAN APPROXIMATELY 12Z, 12 APRIL, HAS CONTINUED, WITH A SLOW RISE IN PARTICLE COUNTS, ESPECIALLY IN THE LOW ENERGY (21-70MEV) RANGE. - This is High energy

IB. NO CHANGE

II. A SMALL SUDDEN COMMENCEMENT (APPROX. 37 GAMMAS, H TRACE) OCCURRED AT 13/0440Z. FIELD RECOVERING GRADUALLY WITH NO MARKED OSCILLATION.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

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HFUS 1 BOU

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 103B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 13 APRIL 1973

IA. SOLAR ACTIVITY HAS BEEN LOW. RGN 077(S08W33) HAS PRODUCED SEVERAL NON-ENERGETIC SUBFLARES TODAY AND APPEARS NOT TO HAVE UNDERGONE SIGNIFICANT CHANGES. RGN 078(S15W50) IS GROWING IN H-ALPHA BUT NO SPOTS ARE VISIBLE. THE 5-21 MEV AND 21-70 MEV PROTON FLUXES REPORTED BY ATS-1 INCREASED TO ABOUT TWENTY TIMES ABOVE BACKGROUND FROM 0500-0700Z AND HAVE APPARENTLY LEVELLED OFF AT THIS VALUE.

IB. ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH M CLASS X-RAY EVENTS STILL POSSIBLE IN RGN 077.

II. A GEOMAGNETIC STORM HAS BEEN IN PROGRESS SINCE A SMALL SUDDEN COMMENCEMENT OCCURRED AT 0440Z.

ACTIVE CONDITIONS ARE EXPECTED TO PERSIST THROUGHOUT THE FORECAST PERIOD IN CONCURRENCE WITH A RECURRENT GEOMAGNETIC DISTURBANCE.

III. EVENT PROBABILITIES 13 - 15 APR

CLASS M 70/60/60

CLASS X 20/10/10

PROTON 10/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 APR 104

PREDICTED 13-15 APR 99/94/90

90-DAY MEAN 12 APR 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 11 APR 19

ESTIMATED 12 APR 05

PREDICTED 13 - 15 APR 29/30/31

SPAN

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Proton fluxes should be discussed in part II

HFUS 1 BOU

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 103B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 13 APRIL 1973

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Minor Storm -  
not active

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HFUS BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 103

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 13 APRIL 1973

IA. SOLAR ACTIVITY HAS BEEN MODERATE, FOLLOWING YESTERDAY'S LULL. FOURTEEN FLARES HAVE BEEN REPORTED IN REGION 077 DURING THE LAST TWENTY-FOUR HOURS, AND FOUR OF THESE WERE CLASS M EVENTS. RADIO BURSTS AND PROMPT IONOSPHERIC EFFECTS ASSOCIATED WITH THESE EVENTS WERE VERY SMALL. IN WHITE LIGHT, SOME NEW SPOTS HAVE BEEN REPORTED IN 077, BUT OVERALL DECAY CONTINUES.

IB. THE FEW NEW SPOTS IN REGION 077 INDICATE CONTINUED POTENTIAL FOR MODERATE ACTIVITY. FROM TWO TO FIVE CLASS M EVENTS MAY BE EXPECTED IN THE NEXT TWENTY-FOUR HOURS.

II. PROTON FLUXES AT SATELLITE HEIGHT CONTINUE ENHANCED, AS FIRST MENTIONED IN YESTERDAY'S REPORT. THE PEAK APPEARS TO HAVE BEEN REACHED BETWEEN 06 AND 12 HOURS (U.T.) THIS MORNING, AND PEAK ABSORPTION (0.8 DB, THULE 30 MHZ RIOMETER) WAS NOTED SHORTLY AFTERWARDS. A SUDDEN COMMENCEMENT GEOMAGNETIC STORM BEGAN AT 0440 (U.T.) THIS MORNING. THE GEOMAGNETIC FIELD SHOULD BE ACTIVE THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 14 APR - 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 APRIL 100

PREDICTED 14-16 APRIL 94/92/90

90-DAY MEAN 13 APRIL 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 12 APR 04

ESTIMATED 13 APR 29

PREDICTED 14-16 APR 25/18/13

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HFUS BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 103

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SDF 103 CORRECTION

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

Sent out correction DCS, TLX &  
TWX with 0600 rpt - per  
Dean Schroeder.

*DSH*

APR 13 23 06-23

MOA/ERL  
COMMUNICATIONS  
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X 3206