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KBOU

HOUS 2 BOU 160200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY

ISSUED AT 160200Z FEB 1973

I. SUNSPOT DATA FROM BOULDR AT 151630Z.

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

029 N07W57 017 0030 C 03 04 BETA

030 N11W60 020 0110 H 03 06 ALPHA

034 S17E14 306 0300 D 07 11 GAMMA

037 S08E32 288 0040 C 04 09 BETA

039 N16W77 037 0080 D 08 06 BETA

NOTE: MAGNETIC CLASSIFICATIONS INFERRED AT BOULDER

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS:

RGN IMP BEGIN MAX END CLASS

-- -- 14/2050 2055 2100 M1

039 0B 14/2309 2312 2318 M2S

NO OPTICAL REPORT AVAILABLE ON 2050Z EVENT.

III. AREAS OF SPECIAL INTEREST:

REGION 034

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HFUS 1 BOU 160600

SDF NUMBER 047A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 16 FEB 1973

IA. NO CHANGE

IB. NO CHANGE

II. NO CHANGE

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 047B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 16 FEBRUARY 1973

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. DURING THE PAST 36 HOURS, REGION 039 HAS PRODUCED TWO CLASS M1 AND SEVERAL UPPER LEVEL CLASS C EVENTS. THIS REGION IS BEGINNING WEST LIMB TRANSIT NEAR NORTH 15. REGION 034(S17E03) APPEARS TO HAVE STABILIZED ITS GROWTH, RETAINING SOME MAGNETIC COMPLEXITY. MINOR GROWTH IS OCCURRING IN REGION 037(S08E21). MINOR SURGING IS OCCURRING NEAR NE19.

IB. XRAY FLARES THROUGH LOW LEVEL CLASS M ARE EXPECTED.

II. THE GEOMAGNETIC FIELD HAS BEEN VERY QUIET. PIONEER 9 AND THULE Z TRACE DATA SHOW A REVERSAL IN THE INTERPLANETARY FIELD STRUCTURE BUT THE REVERSAL HAS NOT YET AFFECTED THE GEOMAGNETIC FIELD.

III. EVENT PROBABILITIES 16 - 18 FEB

CLASS M 45/45/30

CLASS X 05/05/03

PROTON 05/05/03

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 FEB 107

PREDICTED 16 - 18 FEB 106/105/104

90-DAY MEAN 15 FEB 104

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 14 FEB 07

ESTIMATED 15 FEB 08

PREDICTED 16 - 18 FEB 04/12/08

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HFUS BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 047

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 16 FEB 1973

IA. SOLAR ACTIVITY CONTINUES LOW WITH ONLY NINE C-CLASS SUBFLARES REPORTED DURING THE PAST 24 HOURS. REGION 039 /N17W90/ HAS BEEN PRODUCING SUBFLARES WITH OCCASIONAL GEOPHYSICAL EFFECTS AS IT PASSES OVER THE WEST LIMB. REGION 034 /S17W02/ APPEARS TO HAVE STABILIZED AND HAS ONLY PRODUCED ONE C-CLASS SUBFLARE IN THE PAST 72 HOURS.

REGION 037 /S09E17/ HAS PRODUCED TWO SMALL SUBFLARES, BUT IT SEEMS TO BE STABLE. A SMALL REGION HAS PASSED OVER THE EAST LIMB AT NE15, SURGING AS IT CAME INTO VIEW. EUV AND LONG X-RAY MAPS SHOW LITTLE EVIDENCE OF ACTIVITY IN THIS REGION PRIOR TO LIMB PASSAGE, ALTHOUGH WHITE LIGHT CORONAGRAPH DATA INDICATE THE PRESENCE OF OLD STRUCTURE IN THE CORONA ABOVE THIS REGION. TOTAL ELECTRON CONTENT DATA INDICATE THE POSSIBILITY THAT AN IONOSPHERIC STORM IS IN PROGRESS ALTHOUGH IT IS NOT ACCOMPANIED BY A MAGNETIC STORM. NO OLD REGIONS ARE DUE TO RETURN.

IB. SOLAR ACTIVITY SHOULD REMAIN LOW. REGION 034 IS THOUGHT TO HOLD LESS ENERGETIC FLARE POTENTIAL, ALTHOUGH IS COULD STILL PRODUCE A SMALL M-CLASS FLARE. OTHER REGIONS DO NOT APPEAR CAPABLE OF PRODUCING ENERGETIC FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN RELATIVELY QUIET FOR THE PAST 24 HOURS. IT BECAME SLIGHTLY UNSETTLED AT 1730Z AND SHOULD REMAIN SO THROUGH TOMORROW. THE FIELD SHOULD BECOME QUIET AGAIN IN THE MIDDLE OF THE FORECAST PERIOD AND THEN BECOME UNSETTLED ON 19 FEB.

III. EVENT PROBABILITIES 17 FEB - 19 FEB

CLASS M 35/25/25

CLASS X 03/02/02

PROTON 03/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 FEB 101

PREDICTED 17-19 FEB 100/098/097

90-DAY MEAN 16 FEB 104

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 FEB 07

ESTIMATED 16 FEB 08

PREDICTED 17-19 FEB 10/07/10

SOLTERWARN

BT