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HOUS 2 BOU 290200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
29/0200Z APRIL 1973

I. SUNSPOT DATA FROM BOULDER AT 28/1600Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE
0082 N13W55 145 0058 D 10 29 GAMMA DELTA
0085 S05W01 089 0011 D 09 51 GAMMA
0087 S01E04 086 0003 C 04 06 BETA
0089 S12E04 086 0001 B 03 08 BETA
0090 S04E11 079 0000 B 03 03 BETA

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN IMP BEGIN MAX END CLASS
085 1F 28/1740Z 1745Z 1813Z S

III. AREAS OF SPECIAL INTEREST-

REGION 082 ASSUMING SOME CHARACTERISTICS OF PAST PROTON PRODUCING
REGIONS.

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HFUS 1 BOU 290601

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 119A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 29 APRIL 1973

IA. REGION 082 (N13W62) HAS BEEN QUITE ACTIVE DURING THE PAST 5 HOURS. TWO FLARES HAVE BEEN CLASSIFIED AS SMALL M FLARES.

IB. ACTIVITY FROM REGION 082 IS EXPECTED TO CONTINUE. REGION 085 (S05W08) CONTINUES TO DECLINE.

II. THE GEOMAGNETIC FIELD IS AGAIN DISTURBED. AN SC WAS OBSERVED AT 28/1215Z GRADUAL INCREASE UNTIL 29/0215Z AT WHICH TIME INTENSITY INCREASED TO STORM MAGNITUDE.

III. NO CHANGE.

IV. NO CHANGE.

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 APRIL 26

ESTIMATED 28 APRIL 17

PREDICTED 29 APRIL-01 MAY 35/20/15

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Dear Henry - Sorry abt. the
typing. The teletype is,
Steed

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HFUS BOU 291300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 119B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 29 APRIL 1973

IA. SOLAR ACTIVITY HAS INCREASED TO A MODERATE LEVEL. REGION
082 /N13W65/ REMAINS COMPLEX AND HAS PRODUCED FOUR CLASS
M EVENTS IN THE PAST 12 HOURS. A LARGE DB FLARE ERUPTED IN THE
WESTERN PART OF THIS REGION AT 19/1001Z AND WAS ACCCOMPANIED
BY EJECTED MATERIAL. ONE DB ABSORPTION AT 30 MHZ, A SIGNIFICANT
VLF SHIFT AND A CLASS M8 X-RAY EVENT WERE ASSOCIATED WITH THIS
EVENT. SAG HILL REPORTS CONTINUUM AND A NOISE STORM FOLLOWING
THIS SUBFLARE WITH INTENSITY SLOWLY RISING.

IB. SEVERAL CLASS M EVENTS PER DAY ARE EXPECTED FOR THE NEXT
48 HOURS. REGION 082 IS BECOMING A THREAT AS A PROTON PRODUCER
WITH LOCATION GEOMETRY ALSO FAVORABLE. RISING RF LEVELS INDICATE
ANOTHER ENERGETIC EVENT MAY BE IMMINENT.

II. GEOMAGNETIC FIELD DISTURBANCES ARE AT STORM INTENSITY FOLLOWING
AN SC AT 28/1215Z. STORM CONDITIONS ARE EXPECTED FOR AT LEAST
THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 29 APR-01 MAY

CLASS M 80/70/60

CLASS X 15/15/10

PROTON 15/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 APR 112

PREDICTED 29 APR-01 MAY 110/108/105

90- DAY MEAN 28 APR 101

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 APR 26

ESTIMATED 28 APR 15

PREDICTED 29 APR-01 MAY 42/23/18

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HFUS BOU 292245

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 119

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 29 APRIL 1973

IA. SOLAR ACTIVITY HAS BEEN HIGH. REGION 082 (N10W76) PRODUCED AN IMPORTANCE 1B FLARE AT 29/2055Z. THE SPECTRUM OF THE RADIO BURST WAS U-SHAPED WITH BOULDER OBSERVING IN EXCESS OF 2000 FLUX UNITS AT 2700 MHZ. THE X-RAY BURST WAS APPARENTLY CLASS X9. SATELLITE-BORNE X-RAY SENSORS WERE SATURATED. TOTAL SHORT WAVE FADEOUTS WERE OBSERVED UP TO 20 MHZ. STRONG TYPE II AND TYPE IV EMISSION BEGAN AT 29/2100Z. REGION 082 HAD PRODUCED FOUR OTHER ENERGETIC EVENTS, UP TO CLASS M9, EARLIER IN THE DAY.

IB. ADDITIONAL ENERGETIC EVENTS, UP TO CLASS X, ARE EXPECTED FROM REGION 082 DURING THE NEXT 72 HOURS.

II. THE GEOMAGNETIC FIELD WAS DISTURBED TO MINOR STORM INTENSITY DURING THE PAST 22 HOURS. IT IS EXPECTED TO BE ACTIVE ON 30 APRIL. A GEOMAGNETIC STORM IS EXPECTED TO BEGIN BY 02/0000Z. A NEAR-EARTH PROTON EVENT IS EXPECTED TO BEGIN LATE 29 OR EARLY 30 APRIL.

SIGNIFICANT POLAR CAP ABSORPTION IS EXPECTED 30 APRIL-02 MAY.

III. EVENT PROBABILITIES 30 APR-02 MAY

CLASS M 85/85/80

CLASS X 15/15/10

PROTON 40/05/05

PCAF RED

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 APR 109

PREDICTED 30 APR-02 MAY 109/109/108

90-DAY MEAN 29 APR 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 28 APR 19

ESTIMATED 29 APR 29

PREDICTED 30 APR-02 MAY 22/25/45

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