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HOUS 2 BOU 290200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
290200 MAY 1973.

I. REGIONS WITH SUNSPOTS. DATA FROM BOULDER.

LOCATIONS VALID AT 290000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0112 S12W66 115 0010 A 01 01 ALPHA

0114 S03W51 100 0150 C 05 21 BETA-GAMMA

0117 N18W17 066 0010 B 04 06 BETA

MAGNETIC CLASSIFICATIONS INFERRED AT BOULDER

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 290000Z.

NMBR LOCATION LO COMMENT

0113 S06W36 086

0115 N13E03 046

0116 S01W06 055

0118 S12E74 355 SUSPECTED RETURN OF 092

0119 N11E54 355

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN IMP BEGIN MAX END CLASS

0114 0B 28/1735Z 1739Z 1804Z M-1S

III. AREAS OF SPECIAL INTEREST-

REGION 114.

IN ORDER TO MEET OPERATIONAL REQUIREMENTS OF THE ATM
EXPERIMENTERS ABOARD SKYLAB A SECTION IA WILL BE ADDED TO THE
JOINT AESU/SESC REGION AND ACTIVITY SUMMARY ISSUED AT 0200Z
DAILY. PART IA WILL GIVE REGION NUMBERS, LOCATIONS, AND
CARRINGTON LONGITUDES FOR THOSE H-ALPHA PLAGES WITHOUT
SPOTS WHICH THE ATM WILL BE STUDYING. A SINGLE SERIES OF
REGION NUMBERS WILL BE USED FOR ALL REGIONS. LOCATIONS OF ALL
REGIONS WILL BE ROTATED TO 0000Z ON THE DATE OF ISSUE. A
SOLAR ROTATION RATE OF 0.55 DEGREES PER HOUR WILL BE USED TO
ROTATE LOCATIONS FROM THE TIME OF OBSERVATION TO 0000Z.
THESE CHANGES WILL BE EFFECTIVE 25 MAY THROUGH THE END OF
ATM OPERATIONS.

SOLTERWARN

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HFUS 1 BOU 290600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 149A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 29 MAY 1973

IA. SOLAR ACTIVITY CONTINUES AT A LOW LEVEL. ONLY A FEW NON ENERGETIC
SUBFLARES HAVE BEEN OBSERVED.

IB. NO MAJOR ACTIVITY IS EXPECTED.

II. THE GEOMAGNETIC FIELD IS QUIET.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

SPAN

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HFUS 1 BOU 291300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 149B

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

IA. THREE SUBFLARES HAVE BEEN REPORTED SINCE 29/0000Z, AS SOLAR
ACTIVITY HAS BEEN VERY LOW. REGION 117 (N18W24) IS THE MOST DYNAMIC
REGION ON THE DISK, WITH ARCH-FILAMENTS AND GENERAL WHITE LIGHT AND
H-ALPHA GROWTH REPORTED. TWO SMALL SUBFLARES HAVE BEEN OBSERVED
HERE. REGION 114 (S03W58), WHICH PRODUCED THE OTHER SUBFLARE,
CONTINUES ITS GENERAL DECLINE. BOTH LIMBS AND THE REMAINDER OF THE
DISK HAVE BEEN QUIET.

IB. SMALL M CLASS EVENTS ARE STILL POSSIBLE IN REGION 114, BUT ARE NOT
EXPECTED DUE TO ITS CONTINUING DECLINE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. THESE CONDITIONS
ARE EXPECTED TO PREVAIL THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 29 MAY - 31 MAY

CLASS M 50/45/30

CLASS X 02/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 MAY 92

PREDICTED 29-31 MAY 90/88/88

90-DAY MEAN 28 MAY 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 MAY 10

ESTIMATED 28 MAY 10

PREDICTED 29-31 MAY 06/10/08

SOLTERWARN

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HFUS BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 149

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

IA. SOLAR ACTIVITY HAS REMAINED LOW. REGION 114 (S01W66), THE ACTIVE CENTER OF CHIEF INTEREST FOR THE PAST FEW DAYS, HAS BEGUN TO DECAY SLOWLY. IT HAS PRODUCED TWO NON-ENERGETIC SUBFLARES DURING THE PAST 24 HOURS. REGION 117 (N18W30) IS NOW THE ONLY OTHER VISIBLE FEATURE WITH SUNSPOTS. THIS SPOT GROUP, FIRST OBSERVED ON 28 MAY HAS TRIPLED IN AREA (FROM A TYPE B TO A SMALL D) WITHIN THE PAST 24 HOURS, AND THE ASSOCIATED PLAGE HAS DOUBLED IN SIZE. THE PRESENCE OF ARCH FILAMENTS WITHIN THE REGION SUGGESTS THAT ADDITIONAL GROWTH IS LIKELY. THE REGION IS STILL MAGNETICALLY SIMPLE. REGION 117 HAS PRODUCED SEVEN NON-ENERGETIC SUBFLARES IN THE PAST 24 HOURS.

IB. SOLAR ACTIVITY WILL REMAIN LOW FOR THE NEXT 72 HOURS. ONLY INFREQUENT NON-ENERGETIC SUBFLARES ARE EXPECTED. NO OLD REGIONS ARE DUE TO RETURN.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. QUIET TO MILDLY UNSETTLED CONDITIONS ARE EXPECTED TO CONTINUE THROUGH 01 JUNE.

III. EVENT PROBABILITIES 30 MAY - 01 JUNE

CLASS M 30/20/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 MAY 91

PREDICTED 30 MAY - 01 JUNE 90/88/88

90-DAY MEAN 29 MAY 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 28 MAY 08

ESTIMATED 29 MAY 04

PREDICTED 30 MAY - 01 JUNE 06/06/08

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