

27 MAY

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HOUS 2 BOU 270200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
270200Z MAY 1973

I. REGIONS WITH SUNSPOTS. DATA FROM BOULDER.

LOCATIONS VALID AT 27 MAY 0000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0103 N11W76 152 0040 H 02 01 ALPHA

0112 S10W38 114 0010 A 00 01 ALPHA

0114 S02W23 099 0150 D 06 26 BETA/GAMMA/DELTA

0115 N14E30 046 0010 A 02 05 ALPHA

MAG-TYPE: 114 FROM SAC PK, OTHERS BOULDER INFERRED.

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 270000Z.

NONE.

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS:

NONE.

III. AREAS OF SPECIAL INTEREST:

REGION 114 (S02W23).

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

SPAN

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HFUS 1 BOU 270600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 147A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 27 MAY 1973

IA. SOLAR ACTIVITY CONTINUES AT A VERY LOW LEVEL. ALL REGIONS APPEAR STABLE AND QUIET.

IB. NO MAJOR SOLAR ACTIVITY IS EXPECTED.

II. THE GEOMAGNETIC FIELD REMAINS SLIGHTLY DISTURBED.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

SPAN

BT

HFUS 1 BOU 271300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 147B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 27 MAY 1973

IA. ONLY 3 SUBFLARES HAVE BEEN REPORTED SINCE 27/0000Z, AS SOLAR
ACTIVITY REMAINS VERY LOW. REGION 113 (S06W19) HAS PRODUCED 2 OF THE
FLARES, AND HAS EXHIBITED GROWTH IN THE PAST 12 HOURS. REGION 114
(S02W30) IS RESPONSIBLE FOR THE OTHER FLARE, AND SLIGHT DECAY HAS
BEEN REPORTED HERE. ALL OTHER REGIONS HAVE BEEN QUIET.

IB. DUE TO ITS MAGNETIC COMPLEXITY, REGION 114 IS STILL CAPABLE OF
PRODUCING M CLASS EVENTS. WATCH FOR THE RETURN OF OLD REGION 92,
DUE BACK TODAY.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED, AND IS EXPECTED
TO REMAIN AT THIS LEVEL OF ACTIVITY FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 27 MAY - 29 MAY

CLASS M 45/45/40

CLASS X 05/05/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 MAY 98

PREDICTED 27 - 29 MAY 95/90/85

90-DAY MEAN 26 MAY 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 MAY 07

ESTIMATED 26 MAY 10

PREDICTED 27 - 29 MAY 07/08/08

SOLTERWARN

SPAN

BT

NNNN

KBOU

HFUS 1 BOU 271300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 147B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 27 MAY 1973

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ESTIMATED 26 MAY 10

PREDICTED 27 - 29 MAY 07/08/08

SOLTERWARN

SPAN

BT

KBOU

HFUS BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 147

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 27 MAY 1973.

IA. SOLAR ACTIVITY HAS BEEN LOW. REGION 114 (S03W37) HAS BEEN THE MOST ACTIVE VISIBLE FEATURE. IT PRODUCED AN IMPORTANCE 0B FLARE AT 27/1606Z WHICH WAS ACCOMPANIED BY SMALL CENTIMETRIC RADIO BURSTS AND INTENSITY 2 TYPE III EMISSION AT 7-80 MHZ. NO X-RAY EFFECTS WERE REPORTED. REGION 114 ITSELF HAS DECAYED SLIGHTLY, BUT IT REMAINS MAGNETICALLY COMPLEX AND IS THE LARGEST REGION VISIBLE. OTHER VISIBLE FEATURES REMAIN SMALL AND ARE CHANGING SLOWLY. THESE INCLUDE A NEW REGION 116 WHICH IS DEVELOPING NEAR S01E08, REGION 115 (N13E19) WHICH HAS STABILIZED, AND REGION 113 (S06W22) IN WHICH SMALL SUNSPOTS HAVE ONCE AGAIN DEVELOPED AFTER A DAYS ABSENCE. NO SIGNIFICANT LIMB ACTIVITY HAS BEEN OBSERVED FROM REGION 103 (N10W89) AS IT APPROACHES THE WEST LIMB. THE EAST LIMB HAS ALSO BEEN QUIET. FAINT PLAGE NEAR S10E86 MAY BE ASSOCIATED WITH RETURNING REGION 092.

IB. SOLAR ACTIVITY WILL REMAIN AT A LOW LEVEL. INFREQUENT CLASS M EVENTS ARE POSSIBLE FROM REGION 114. OLD REGION 092 MAY RETURN BUT IT IS NOT EXPECTED TO BE ACTIVE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IS EXPECTED TO BE QUIET TO UNSETTLED FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 28 MAY - 30 MAY.

CLASS M 45/40/35

CLASS X 05/02/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 27 MAY 97

PREDICTED 28 MAY - 30 MAY 95/92/90

90-DAY MEAN 27 MAY 102

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 26 MAY 08

ESTIMATED 27 MAY 06

PREDICTED 28 MAY - 30 MAY 08/12/06

SOLTERWARN

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 147

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
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