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HOUS 2 BOU 270200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY

ISSUED AT 270200Z APR 1973

I. SUNSPOT DATA FROM CANARY AT 260915Z.

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

0082 N12W26 147 0120 D 09 21 GAMMA-DELTA

0085 S06E31 090 0260 D 08 18 GAMMA-DELTA

0088 S01E35 086 0000 B 01 02 BETA

NOTE-MAGNETIC TYPE CLASSIFICATIONS 082/085 MT WILSON

REGION 088 INFERRED AT CANARY IS.

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS:

RGN	IMP	BEGIN	MAX	END	CLASS
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082	IN	26/0626Z	0628	----	M3
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082	IN	26/B1938Z	2003	A2115	M9
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III. AREAS OF SPECIAL INTEREST:

NEW ANTIPOLE NE SECTION OF REGION 082. ACTIVITY IN 085 EXPECTED TO INCREASE.

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 117A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 27 APRIL 1973.

IA. NO SIGNIFICANT CHANGE SINCE 26/2200Z. REGION 082(N12W38)-PLAGE
AND SPOT GROWTH EAST OF MAIN GROUP. STRONG ARCH FILAMENT SYSTEM AND
SIGNIFICANT SPOT GROWTH IN TRAILER PORTION. RAPID SPOT GROWTH IN THE
ANTIPOLAR GROUP. GRADIENTS TIGHTENING. REGION 085(S06E19)-INCREASE
IN OVERALL COMPLEXITY. SPOT GROWTH IN LEADING PORTION, PENUMBRAL
FRAGMENTATION IN NORTHEAST. REGION 087(S01E23)-NOW POSSIBLY A "B"
TYPE. LIMBS QUIET.

IB. NO CHANGE

II. NO CHANGE

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 117B

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

IA. SOLAR ACTIVITY HAS BEEN MODERATE. REGIONS 082 AND 085
(N12W42/S06E15) HAVE PRODUCED A FEW SUBFLARES SINCE 27/0000Z.
VELA REPORTS A MEDIUM CLASS C EVENT AT 27/1015Z. PLAGE AND
SPOT GROWTH ARE APPARENT EAST OF THE MAIN SPOT GROUP IN REGION
082, WITH AN ARCH FILAMENT SYSTEM REPORTED NEAR THE TRAILER
PORTION. REGION 085 IS STILL INCREASING IN COMPLEXITY.

IB. M CLASS EVENTS ARE STILL EXPECTED. AN X CLASS EVENT IS
POSSIBLE IN THE NEXT 24 HOURS. LIMB ACTIVITY IS ALSO POSSIBLE
WITH OLD REGIONS 071(S13) AND 074(S08) DUE BACK 28 APRIL.

II. A MINOR MAGSTORM BEGAN EARLIER TODAY, AND IS EXPECTED
TO PERSIST THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 27-29 APRIL

CLASS M 70/70/60

CLASS X 10/08/05

PROTON 25/15/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 APRIL 110

PREDICTED 27-29 APRIL 112/112/110

90 DAY MEAN 26 APRIL 101

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 APRIL 14

ESTIMATED 26 APRIL 19

PREDICTED 27-29 APRIL 30/35/25

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HFUS BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 117

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

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. THE LARGEST EVENT DURING THE PAST 24 HOURS HAS BEEN A 1N/C5 AT 1011Z IN REGION 082 (N13W46). SUNSPOT RESTRUCTURING CONTINUES IN REGION 082. BOTH REGIONS 082 AND 085 (S06E10) ARE CLASSED GAMMA DELTA. SUNSPOT RESTRUCTURING ALSO CONTINUES IN REGION 085. THE PLAGE STRUCTURE OF THIS REGION IS LARGE AND IMPRESSIVE. THE LARGE FILAMENT (S20E30 TO S10E75) HAS BEEN ACTIVE. THE PERIODS OF STRONGEST DOPPLER SHIFTS IN THIS FILAMENT HAVE OCCURRED WITH STRONG PLAGE INTENSITY CHANGES IN REGION 085.

IB. BOTH REGIONS 082 AND 085 ARE CAPABLE OF PRODUCING ENERGETIC EVENTS UP TO LOW LEVEL CLASS X.

II. THE GEOMAGNETIC FIELD HAD A MAGSTORM CONFIGURATION FOR THE FIRST 12 HOURS OF THIS ZULU DAY BUT HAS SINCE BECOME QUIET. THIS QUIET CONDITION IS EXPECTED TO BE SHORT-LIVED, WITH A RETURN TO ACTIVE TO MAGSTORM CONDITIONS EXPECTED FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 28-30 APR

CLASS M 70/70/60

CLASS X 05/05/05

PROTON 15/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 APR 111

PREDICTED 28-30 APR 113/113/111

90-DAY MEAN 27 APR 101

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 APR 20

ESTIMATED 27 APR 27

PREDICTED 28-30 APR 35/25/22

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