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HFUS 2 BOU 131800

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

JOINT AESU/SESC EXTENDED PERIOD REPORT ISSUED AT 1800Z 28 MAY 1973

THIS MESSAGE IN THREE PARTS.

PART I. THIS FORECAST ISSUED AT 1800Z EACH MONDAY IS VALID FOR A 27 DAY PERIOD. A 27-DAY MEAN VALUE OF 2800 MHZ FLUX DENSITY IS GIVEN WITH THE INCLUSIVE DATES OF EXPECTED SIGNIFICANT DEVIATIONS FROM THE MEAN. SEE 07 MAY FORECAST FOR DEFINITIONS.

PART II. 27-DAY 2800 MHZ FLUX DENSITY FORECAST:

A. MEAN 94

B. SIGNIFICANT DEVIATIONS: NONE

PART III. 27-DAY SOLAR EVENT FORECAST:

A. CLASS M SOLAR EVENTS THREE-SIX

CLASS X SOLAR EVENTS NONE

B. EXPECT MOST ACTIVITY: 28-30 MAY, 13-20 JUNE

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HOUS 2 BOU 280200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
28/0200Z MAY 1973

I. REGIONS WITH SUNSPOTS. DATA FROM BOULDER

LOCATIONS VALID AT 28 MAY 0000Z

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0103 N10W90 152 0030 H 02 01 ALPHA

0112 S11W52 114 0010 A 01 01 ALPHA

0113 S06W23 086 0000 B 06 05 BETA

0114 S03W38 100 0140 C 07 24 BETA GAMMA

0115 N13E16 046 0010 A 01 01 ALPHA

0116 S01E07 055 0000 A 01 01 ALPHA

MAGNETIC CLASSIFICATIONS INFERRED AT BOULDER.

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 28 MAY 0000Z

NONE

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

NONE

III. AREAS OF SPECIAL INTEREST-

REGION 114 (S03W38) WEST LIMB AS 103 MAKES ITS LIMB PASSAGE.

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.

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HFUS 1 BOU 280600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 148A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 28 MAY 1973

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

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A LOW LEVEL.

II. THE GEOMAGNETIC FIELD REMAINS UNSETTLED AND NO CHANGE IS PREDICTED.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

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HFUS 1 BOU 280600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 148A

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III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

SPAN

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HFUS 1 BOU 281300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 148B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 28 MAY 1973

IA. SOLAR ACTIVITY REMAINS LOW. REGION 114 (S03W45) HAS PRODUCED TWO SUBFLARES TODAY WHILE DECLINING IN WHITE LIGHT AND H-ALPHA. REGION 115 (N13E09) PRODUCED THE ONLY OTHER ACTIVITY, WHICH WAS ANOTHER SMALL SUBFLARE. A NEW REGION (N19W10) IS REPORTED TO BE AN EMERGING BIPOLE WITH ARCH FILAMENTS PRESENT. RAPID GROWTH HAS BEEN PRESENT HERE. MINOR SURGE ACTIVITY HAS BEEN NOTED ON THE WEST LIMB WITH THE DEPARTURE OF REGION 103. ALL OTHER REGIONS HAVE BEEN PREDOMINANTLY STABLE AND QUIET.

IB. ENERGETIC ACTIVITY IS NOT EXPECTED, AS SOLAR ACTIVITY IS LIKELY TO REMAIN AT A LOW LEVEL.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. RECURRENCE SUGGESTS A SLIGHTLY HIGHER LEVEL OF ACTIVITY FOR THE NEXT 36 HOURS, AND THEN A RETURN TO THE PRESENT LEVEL.

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 - 30 MAY 95/92/90

90-DAY MEAN 27 MAY 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 MAY 08

ESTIMATED 27 MAY 08

PREDICTED 28 - 30 MAY 08/12/06

SOLTERWARN

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KBOU

HFUS 1 BOU 281300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 148B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 28 MAY 1973

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ESTIMATED 27 MAY 08

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 148

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 28 MAY 1973

IA. SOLAR ACTIVITY HAS BEEN LOW. REGION 114 (S03W49) CONTINUES TO DOMINATE THE VISIBLE DISK. THIS REGION PRODUCED AN IMPORTANCE 0B CLASS M1 FLARE AT 28/1735Z. WEAK SHORT WAVE FADEOUTS AT FREQUENCIES UP TO 20 MHZ ACCOMPANIED THE EVENT. THE MAIN SPOTS OF TRAILING POLARITY IN REGION 114 HAVE DECAYED BUT INTERMEDIATE SPOTS HAVE DEVELOPED AND MAGNETIC FIELD GRADIENTS REMAIN MODERATE. OVERALL THE REGION HAS NEITHER INCREASED NOR DECREASED SIGNIFICANTLY IN FLARE POTENTIAL. ONLY TWO OTHER SUNSPOT GROUPS ARE VISIBLE. BOTH ARE SMALL AND SIMPLE AND NEITHER IS GROWING RAPIDLY. ONLY FAINT AND SCATTERED PLAGE HAS CROSSED THE SOUTHEAST LIMB WHERE OLD REGION 092 WAS DUE TO RETURN.

IB. SOLAR ACTIVITY WILL CONTINUE AT A LOW LEVEL FOR THE NEXT 72 HOURS. INFREQUENT SMALL CLASS M EVENTS REMAIN POSSIBLE FROM REGION 114.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO MILDLY UNSETTLED DURING THE PAST 24 HOURS. SIMILAR CONDITIONS ARE EXPECTED DURING THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 29-31 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 12/08/06

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KBOU

HFUS BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 148

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 28 MAY 1973

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CLASS M 50/45/30

CLASS X 02/01/01

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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

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