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HFUS 2 BOU 181800

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

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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

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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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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.

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ESTIMATED 27 MAY 08

PREDICTED 28 - 30 MAY 08/12/06

SOLIERWARN

SPAN

BT

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 ACCCOMPANIED 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

SOLTERWARN

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 148

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
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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

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OBSERVED FREDERICKSBURG 27 MAY 10

ESTIMATED 28 MAY 10

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