

NNNN

KBOU

HXUS BOU 040226

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT  
04/0200Z APRIL 1973

I. SUNSPOT DATA FROM CANARY IS. AT 03/0900Z  
NMBR LOCATION LO AREA Z LL NN MAG-TYPE

064	S06W17	081	0600	E	XX	40	BETA-GAMMA
067	N12E23	041	0180	D	XX	10	GAMMA
069	N08W86	150	0020	H	XX	01	ALPHA
070	S12E38	026	0040	C	XX	02	BETA
071	S12E71	353	0090	C	XX	02	BETA
072	S13E83	341	0000	A	XX	01	ALPHA

MAGNETIC CLASSES FROM MT. WILSON, EXCEPT 071 & 072 WHICH WERE  
INFERRED AT BOULDER. DELTA EXISTS IN 064.

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN	IMP	BEGIN	MAX	END	CLASS
071	IN	03/1526Z	1528Z	1544Z	C8
064	IN	03/1836	1855Z	1928Z	M1

*should not be included*  
*class should be left blank here.*

III. AREAS OF SPECIAL INTEREST-

WATCH W LIMB FOR ACTIVITY DURING 061/069 DEPARTURE, AND E LIMB  
FOR RETURN OF 056. LATE AFTERNOON OBSERVATIONS AT BOULDER INDICATE  
GREATLY STRENGTHENED DELTA IN 064. WATCH FOR PROBABLE ENERGETIC  
FLARE EARLY 04 APRIL.

SOLTERWARN

SPAN

BT

NNNN

KBOU

HFUS 1 BOU 040600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 094A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 04 APRIL 1973

IA. SOLAR ACTIVITY HAS DIMINISHED DURING THE PAST 8 HOURS. TWO SMALL C-CLASS SUBFLARES HAVE BEEN NOTED IN REGION 064 (S06W30). OTHER REGIONS HAVE BEEN QUIET.

IB. REGION 064 EXHIBITED SUBSTANTIAL DEVELOPMENT IN WHITE LIGHT LATE ON 03 APRIL. THE TRAILER POLARITY SPOT EMBEDDED IN THE LEADER GROUP (DELTA CONFIGURATION) DARKENED AND APPEARED TO MOVE CLOSER TO A LARGE LEADER POLARITY SPOT IN THE SOUTHEAST PORTION OF THE LEADER GROUP. THIS MEANS VERY STEEP MAGNETIC GRADIENTS ARE PRESENT HERE. THEREFORE, LIKELIHOOD OF ENERGETIC ACTIVITY IN REGION 064 IS INCREASED. OTHER REGIONS SEEM INCAPABLE OF PRODUCING ENERGETIC FLARES AT THIS TIME.

II. NO CHANGE.

III. EVENT PROBABILITIES 04 APR-06 APR

CLASS M 85/85/80

CLASS X 25/25/10

PROTON 10/10/10

PCAF GREEN

IV. NO CHANGE.

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 02 APR 37

ESTIMATED 03 APR 21

PREDICTED 04-06 APR 20/15/15

SOLTERWARN

SPAN

BT

HFUS 1 BOU 041300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 094B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 04 APRIL 1973

IA. SOLAR ACTIVITY HAS BEEN LOW, THOUGH VELA DATA INDICATES RECENT OCCURANCE OF AN X-RAY CLASS M FLARE. MINOR WEST LIMB ACTIVITY IS ALL THAT SHOWS FROM DISAPPEARING REGIONS 061/069. REGIONS 067/071 (N12E18/S12E66) SHOW NO SIGNIFICANT DEVELOPMENT, PRODUCING ONLY A COUPLE OF SUBFLARES EACH. REGION 064 (S06W22), CURRENTLY YIELDING OCCASIONAL SUBFLARES, IS A LARGE MATURE REGION OF CONSIDERABLE MAGNETIC COMPLEXITY AND HAS THE POTENTIAL FOR ENERGETIC ACTIVITY. REGIONS 070/072 (S12E33/S13E78) ARE SMALL AND CURRENTLY QUIET. EAST LIMB ACTIVITY INDICATES POSSIBLE ARRIVAL OF A NEW ACTIVE REGION.

IB. THE PRESENCE OF MANY ACTIVE REGIONS, INCLUDING A COUPLE OF LARGE, STRONG REGIONS MAKES MODERATE ACTIVITY LIKELY AND VERY ENERGETIC ACTIVITY POSSIBLE.

II. THE GEOMAGNETIC FIELD, PRESENTLY UNSETTLED, SHOULD CONTINUE TO SLOWLY DECLINE IN ACTIVITY THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 04 APR - 06 APR

CLASS M 85/85/80

CLASS X 25/25/10

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 APR 129

PREDICTED 04 APR - 06 APR 130/128/126

90-DAY MEAN 03 APR 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 02 APR 37

ESTIMATED 03 APR 19

PREDICTED 04 APR - 06 APR 20/15/15

SOLTERWARN

SPAN

BT

*presently active*

(064)  
(067)

Region 072 -

should not start  
sentence with  
number

NNNN

KBOU

HFUS BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 094

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 04 APRIL 1973

IA. SOLAR ACTIVITY REMAINS MODERATE. REGIONS 064 (S06W35) AND  
067 (N12E04) CONTINUE TO SUBFLARE, 067 AT A REDUCED RATE. 072  
(S13E63) PRODUCED A CLASS M-1 ONE-NORMAL AT 1200Z, PROVING IT  
CAPABLE OF AT LEAST MODERATE ACTIVITY. 064 CONTINUES DECLINE, AND  
IS NO LONGER IMPRESSIVE. 064 HAS SHOWN DECAY IN THE TRAILER  
PORTION, AND DYNAMIC STRUCTURAL CHANGES IN THE LEADER. THE  
DELTA REMAINS. NEW REGION 073 (S13W60) HAS APPEARED AS AN A-TYPE  
SPOT. ACTIVITY AT SE10 INDICATES THE RETURN OF OLD 056. OLD Region 056  
CONTINUOUS IMPORTANCE ONE TYPE IV DEKAMETRIC ACTIVITY HAS  
BEEN OBSERVED SINCE 03/1830Z.

IB. THE LEADER OF 064 AND THE 071/072 GROUP ARE CAPABLE OF  
ENERGETIC ACTIVITY. X-CLASS EVENTS ARE POSSIBLE, MAINLY FROM  
064. 064 IS IN GOOD POSITION TO CAUSE PARTICLE EVENTS AT EARTH IF  
ENERGETIC FLARES OCCUR.

II. THE MAGNETIC FIELD HAS BEEN QUIET TO UNSETLED. UNSETTLEMENT  
SHOULD INCREASE AS REGION 064 MOVES WELL INTO THE WESTERN  
HEMISPHERE, AND ANY SIGNIFICANT ACTIVITY FROM 064 COULD RESULT  
IN MAJOR MAGNETIC ACTIVITY.

III. EVENT PROBABILITIES 05-07 APRIL

CLASS M 85/85/85

CLASS X 10/10/10

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 APRIL 122

PREDICTED 05-07 APRIL 120/118/116

90-DAY MEAN 04 APRIL 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 03 APRIL 22

ESTIMATED 04 APRIL 11

PREDICTED 05-07 APRIL 15/12/10

SOLTERWARN

SPAN

BT

if ~~unsettlement~~ should increase,  
why the decreasing A values

NNNN