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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 B03/1836 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.

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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 1973IA. 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

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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 OCCURRENCE 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

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presently active

(064)
(067)
Region 072 - should not start
sentence with
number

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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. 067 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 UNSETTLED. 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

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

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