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HOUS 2 BOU 070200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT  
07/0200Z JAN. 1973

I. SUNSPOT DATA FROM RAMEY AT 06/1135Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

517 N07W13 142 0310 D 10 24 BETA

519 N13E15 114 0310 D 10 45 BETA

003 S17E64 065 0040 H 02 01 ALPHA

002 S12W43 172 0030 C 04 07 BETA

NOTE--MAGNETIC CLASSIFICATION INFERRED AT RAMEY.

TWO OBSERVATORIES REPORT SPOTS AT N06W03. THESE MAY BE A NEW  
REGION OR REMNANTS OF THE DISINTEGRATED REGION 517 TRAILER.

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN	IMP	BEGIN	MAX	END	CLASS
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518	0N	06/0020Z	0021Z	0037Z	S
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519	1N	06/1349Z	1358Z	1430Z	MS
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519	1N	06/1054Z	--	1300Z	C
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519	1F	05/2324Z	2328Z	2355Z	C
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III. AREAS OF SPECIAL INTEREST-

THE NEWLY FORMED DARK FILAMENT ENTERING REGION 519 FROM THE  
NORTHEAST SHOULD BE WATCHED. ACTIVITY HERE MAY PRECEDE AN  
ENERGETIC FLARE IN REGION 519, WHICH NOW HAS A DELTA CONFIGURATION.  
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HFUS 1 BOU 070600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 007A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 07 JANUARY 1973

IA. NO CHANGE

IB. NO CHANGE

II. NO CHANGE

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

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HFUS 1 BOU 071300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 007B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 7 JANUARY 1973

IA. ACTIVITY HAS BEEN MODERATE IN THE PAST 24 HOURS, WITH THREE SUB-  
FLARES AND ONE ONE-NORMAL AT 06/1358Z. THIS LATTER FLARE OCCURRED  
IN REGION 519 (N13E02), REACHED X-RAY CLASS M-2, AND CAUSED  
SMALL SPA AND SWF EVENTS. A BROADBAND RADIO NOISE STORM BEGAN AT  
06/1433Z, INTENSIFIED AT 06/2100Z, AND WAS STILL IN PROGRESS AT  
BOULDER SUNSET. REGION 517 (N08W27) REMAINS COMPLEX BUT QUIET,  
BUT THE EMERGENCE OF A NEW BETA TYPE GROUP WITHIN THE TRAILER  
INCREASES FLARE POTENTIAL. REGION 519 IS THE MOST IMPRESSIVE ON THE  
DISK. GROWTH HAS STOPPED, BUT THE REGION IS SPREADING IN THE EAST-  
WEST DIRECTION. OTHER REGIONS ARE STABLE AND QUIET.

IB. SUBFLARES ARE EXPECTED FROM 517 AND 519. BOTH REGIONS ARE CAPABLE  
OF ENERGETIC EVENTS, WITH A HIGHER PROBABILITY ASSIGNED TO THE TRAILER  
PORTION OF 517. FLARES MAY REACH MEDIUM CLASS M X-RAY INTENSITY, AND  
X-CLASS EVENTS ARE POSSIBLE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO MILDLY UNSETTLED.

UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED DURING THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 07-09 JAN

CLASS M 75/75/75

CLASS X 10/10/10

PROTON 10/15/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 JAN 119

PREDICTED 07-09 JAN 120/120/121

90-DAY MEAN 06 JAN 110

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 05 JAN 17

ESTIMATED 06 JAN 17

PREDICTED 07-09 JAN 08/19/24

SPAN

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HFUS BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 007

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 07 JAN 1973.

IA. SOLAR ACTIVITY DECREASED TO A LOW LEVEL WITH ONLY 5 SUBFLARES REPORTED DURING THE LAST 24 HOURS. A FEW MINOR RADIO BURSTS HAVE BEEN OBSERVED AT MOST FREQUENCIES BUT STRONGEST AT LOWER FREQUENCIES. BROADBAND CONTINUUM HAS BEEN OBSERVED THROUGH THE DAY AT DEKAMETRIC WAVELENGTHS. REGION 519 /N13W04/ PRODUCED 4 SUBFLARES AND REMAINS THE MOST IMPRESSIVE SHOWING SOME SLIGHT GROWTH IN H-ALPHA. THE DELTA CONFIGURATION NO LONGER APPEARS TO BE PRESENT, BUT A COMPLICATED, SHARPLY KINKED NEUTRAL LINE RUNS THROUGH THE REGION. REGION 517 /N07W30/ PRODUCED ONLY ONE SUBFLARE AND THE LEADER HAS SHOWN SOME DECAY IN BOTH H-ALPHA AND WHITE LIGHT. HOWEVER STRONG ORGANIZED FIBRILLES, AN ACTIVE DARK FILAMENT AND A POSSIBLE ARCH FILAMENT SYSTEM HAVE ALL BEEN OBSERVED IN THIS REGION.

IB. A MEDIUM CLASS M EVENT IS LIKELY FROM REGION 517 OR 519 AND A SMALL CLASS X EVENT IS POSSIBLE. A PROTON EVENT COULD ALSO BE PRODUCED BY EITHER OF THESE REGIONS.

II. THE GEOMAGNETIC FIELD HAS BECOME QUIET DURING THE PAST 24 HOURS. HOWEVER, A SECTOR BOUNDARY PASSAGE IS EXPECTED IN 24 TO 48 HOURS AND SHOULD RESULT IN ACTIVE CONDITIONS WITH THE GREATEST ACTIVITY EXPECTED ON THE 9TH.

III. EVENT PROBABILITIES 08 JAN - 10 JAN.

CLASS M 75/75/75

CLASS X 10/10/10

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 07 JAN 116

PREDICTED 08 JAN - 10 JAN 117/118/119

90-DAY MEAN 07 JAN 111

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 06 JAN 17

ESTIMATED 07 JAN 05

PREDICTED 08 JAN - 10 JAN 14/24/12

SOLTERWARN

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