

NNNN

KBOU

HOUS 2 BOU 160200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT  
16/0200Z JAN 1974.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT  
15/2020Z. LOCATIONS VALID AT 16 JAN 0000Z.

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
0316	S12W18	244	0110	C	04	06	BETA	
0317	S16E09	217	0030	H	01	02	ALPHA	
0320	S17E31	195	0100	C	05	03	BETA	
0321	S13E54	172	0050	D	08	02	BETA	
0323	N08W31	257	0020	C	05	02	BETA	
0324	S17E46	180	0005	A	00	01	ALPHA	

MAGNETIC CLASSIFICATIONS FROM MT. WILSON

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 16 JAN 0000Z.

NMBR	LOCATION	LO
0314	N07W90	316
0315	S20W52	278
0318	N10W25	251

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN	IMP	BEGIN	MAX	END	CLASS
0314	IN	15/1050Z	1056	1124	M1

III. AREAS OF SPECIAL INTEREST-

REGION 320 CONTAINS PLAGE OF MIXED POLACITIES.

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HFUS 1 BOU 160600  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 016A  
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 16 JAN 1974  
IA. NO SIGNIFICANT ACTIVITY HAS BEEN REPORTED SINCE THE 2200Z  
FORECAST.  
IB. REGION 314 IS NOW BEHIND THE WEST LIMB AND POSES AN UNKNOWN  
PROTON THREAT.  
II. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY ACTIVE AS A RECURRENT  
DISTURBANCE CONTINUES. ACTIVE CONDITIONS ARE EXPECTED FOR THE  
NEXT 24 TO 48 HOURS.  
III. EVENT PROBABILITIES NO CHANGE  
IV. OTTAWA 10.7 CM FLUX NO CHANGE  
V. GEOMAGNETIC A INDICES NO CHANGE  
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SPAN  
BT

HFUS 1 BOU 161300  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 016B  
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 16 JANUARY 1974

IA. SOLAR ACTIVITY HAS DECLINED IN THE PAST 24 HOURS AS REGION 314 (N07 WEST LIMB) ROTATES OFF THE DISK. HOWEVER, THERE WAS AN M2 EVENT AT 0626Z WHICH WAS ACCCOMPANIED BY WEAK TYPE III AND TYPE II DEKAMETRIC BURSTS. THERE HAS BEEN NO OPTICAL EVENT ASSOCIATED WITH THESE BURSTS, BUT REGION 314 WAS THE LIKELY SOURCE. REGION 321 (S13E48) HAS SHOWN SOME GROWTH AND IS THE MOST INTERESTING REGION AT PRESENT. ALL OTHER REGIONS ARE RELATIVELY INACTIVE.

IB. SOLAR ACTIVITY SHOULD BE LOW TO MODERATE THIS PERIOD WITH A SLIGHT CHANCE OF A PROTON EVENT FROM REGION 314 AND A FAIR CHANCE OF AN M EVENT FROM ONE OF THE REMAINING DISK REGIONS.

II. THE GEOMAGNETIC FIELD BECAME SLIGHTLY ACTIVE ON THE 15TH AND SHOULD REMAIN UNSETTLED TO ACTIVE FOR THIS PERIOD.

III. EVENT PROBABILITIES 16 JAN - 18 JAN

CLASS M	35/35/35
CLASS X	05/05/05
PROTON	10/05/02
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	15 JAN 95
PREDICTED	16 JAN - 18 JAN 94/93/92
90-DAY MEAN	165 JAN 85

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	14 JAN 05
ESTIMATED AFR/AP	15 JAN 15/17
PREDICTED AFR/AP	16 JAN - 18 JAN 25/33 - 20/24 - 18/21
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HFUS BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 016

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 16 JAN 1974.

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.  
THE MOST ENERGETIC EVENT REPORTED CONSISTED OF A CLASS M1 X-RAY  
BURST WITH MAXIMUM AT 16/0632Z. WEATHER CONDITIONS PREVENTED OPTICAL  
OBSERVATION OF THIS EVENT, SO ITS LOCATION REMAINS UNKNOWN. A  
GROUP OF TYPE III BURSTS AT 16/0637-0654Z AND A WEAK TYPE II BURST  
AT 16/0647-0652Z FOLLOWED THE X-RAY MAXIMUM. NO SIGNIFICANT  
PROTON ENHANCEMENTS NEAR EARTH OR MICROWAVE BURSTS WERE REPORTED  
FOLLOWING THE CLASS M1 EVENT. REGION 321(S14E38) HAS DEVELOPED  
IN H-ALPHA AND WHITE LIGHT. A FILAMENT NORTH OF THIS REGION HAS  
SHOWN SPORADIC RECENT ACTIVITY. A NEW REGION (NUMBER 325) CONTAIN-  
ING A B-TYPE SPOT GROUP AND SMALL PLAGE EMERGED AND DECAYED AT  
N17W10. ANOTHER NEW REGION (NUMBER 326) CONTINUING WEAK PLAGE AND  
THREE WEAK SPOTS EMERGED AT S11W26. OTHER REGIONS HAVE BEEN STABLE  
OR HAVE DECLINED.

IB. SOLAR ACTIVITY PROBABLY WILL BE LOW TO MODERATE DURING THE THREE  
DAY DORECAST PERIOD. SPORADIC SMALL FLARES, A FEW APPROACHING CLASS  
M INTENSITY, ARE LIKELY IN REGIONS 321, 316(S12W31), AND 320(S17E18).

II. THE GEOMAGNETIC FIELD WAS UNSETLED TO ACTIVE UNTIL ABOUT  
16/1200Z, WHEN CONDITIONS BECAME RELATIVELY QUIET. UNSETLED TO  
ACTIVE CONDITIONS ARE LIKELY DURING THE NEXT THREE DAYS, ESPECIALLY  
DURING PERIODS OF LOCAL NIGHT.

III. EVENT PROBABILITIES 17 - 19 JAN

CLASS M / 45/45/45

CLASS X / 05/05/05

PROTON / 05/02/01

PCAF : GREEN

IV. OTTAWA 10.7CM FLUX

OBSERVED : 16 JAN 93

PREDICTED : 17-19 JAN 93/92/91

90-DAY MEAN : 16 JAN 85

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG : 15 JAN 12

ESTIMATED AFR/AP : 16 JAN 10/11

PREDICTED AFR/AP : 17-19 JAN 20/24 - 15/17 - 10/11

SOLTERWARN

SPAN

BT