

WFUS 3 BCU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 244B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 01 SEPTEMBER 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/1200Z TO 01/2100Z. SOLAR ACTIVITY HAS BEEN LOW SINCE 01/1200Z. NUMEROUS C-CLASS FLARES HAVE OCCURRED IN REGIONS 3295 (N17W54), 3298 (N16W34), 3310 (S11E43), AND 3312 (S06W69). THE LARGEST WAS A C5/SN AT 01/1654Z IN REGION 3310. REGIONS 3300 (S12W06) AND 3310 HAVE BOTH RETAINED THEIR DELTAS. REGION 3295 HAS SHOWN SIGNS IN H-ALPHA OF INCREASED ACTIVITY. NO NEW REGIONS WERE CONFIRMED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BECOME MODERATE DUE TO POTENTIAL APPARENTLY SUSTAINED IN REGIONS 3295, 3300, AND 3310. REGION 3298 IS EXPECTED TO REMAIN ERUPTIVE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS. UNSETTLED CONDITIONS ARE EXPECTED FOR 02 SEPTEMBER, FOLLOWED BY ACTIVE CONDITIONS FOR THE FOLLOWING TWO DAYS IN RESPONSE TO NUMEROUS M-CLASS FLARES.

III. EVENT PROBABILITIES 02 SEPTEMBER - 04 SEPTEMBER

CLASS M 90/90/90

CLASS X 20/20/20

PROTON 10/15/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 SEPTEMBER 244

PREDICTED 02-04 SEPTEMBER 246/243/240

90-DAY MEAN 01 SEPTEMBER 191

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 AUGUST 13/15

ESTIMATED AFR/AP 01 SEPTEMBER 06/08

PREDICTED AFR/AP 02-04 SEPTEMBER 12/15 - 15/25 - 15/20

SOLTERWARM

BT

70265 1090T 37/01  
11111 21300 53573 05134 90999

NNNNZCZGLZU

KBOU

HFUS 1 BOU 011240

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 244A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 01 SEP 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
31/1200Z TO 01/1200Z:

SOLAR ACTIVITY WAS MODERATE DURING THIS PERIOD. FOUR M-CLASS  
FLARES WERE OBSERVED: AN M2 AT 31/1403Z NEAR THE LIMB FROM  
REGION 3287 (S18), AN M1/1B AT 31/1813Z FROM REGION 3310 AT  
01/0543Z, AN M1/SB FLARE FROM REGION 3310 (S10E50), AN M1/SB  
FLARE FROM REGION 3310 AT 01/0543Z, AND AN M1/SB FROM REGION  
3295 (N77W43) AT 01/1011Z. IN ADDITION TO THESE EVENTS,  
FREQUENT SUBFLARE ACTIVITY WAS OBSERVED, FROM NEARLY ALL OF THE  
16 SPOTTED REGIONS ON THE SOLAR DISK.

IB. SOLAR ACTIVITY FORECAST:

MODERATE LEVELS OF ACTIVITY WILL CONTINUE FOR THE NEXT FEW  
DAYS. THERE ARE STILL NO REGIONS LIKELY TO PRODUCE ANY X-CLASS  
ACTIVITY, HOWEVER. REGION 3300 (S12E03) MIGHT BE THE BEST  
REGION TO WATCH FOR FLARE ACTIVITY DURING THE NEXT 24 HOURS.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS AT QUIET LEVELS OF ACTIVITY THROUGH-  
OUT THIS PERIOD. GENERALLY UNSETTLED LEVELS ARE EXPECTED FOR  
THE NEXT 72 HOURS, BUT THERE WILL BE A SLIGHT CHANCE THAT  
INTERMITTENT ACTIVE CONDITIONS COULD OCCUR IN RESPONSE TO ANY  
OF THE SEVERAL M-CLASS FLARES OF THE LAST FEW DAYS.

III. EVENT PROBABILITIES: 2 - 4 SEP

CLASS M 90/90/90

CLASS X 20/20/20

PROTON 10/15/20

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 31 AUG 240

ESTIMATED 01 SEP 236

PREDICTED 02-04 SEP 234/234/232

90 DAY MEAN 31 AUG 190

V. GEOMAGNETIC A INDICES

OBSERVED AFR 30 AUG 17 AP 31 AUG 15

ESTIMATED AFR 31 AUG 15 AFR/AP 01 SEP 06/08

PREDICTED AFR/AP 02-04 SEP 12/15 15/25 15/20

SOL TERWARN