

FUS 3 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 207

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 26 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/2100Z TO 26/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. THE LARGEST X-RAY EVENT WAS A C6 AT 1652Z ASSOCIATED WITH FLARE LOOPS ON THE EAST LIMB AT S06. SURGING HAS BEEN REPORTED FROM THIS LOCATION, AS WELL AS ADDITIONAL FLARE LOOPS IN PROGRESS AT 1400Z AND 1930Z, AND A BRIGHT SURGE TO .15 RADII IN PROGRESS AT 1900Z. RADIO BURSTS AND TYPE III, V SWEEPS HAVE OCCURRED IN CONJUNCTION WITH THIS LIMB ACTIVITY. ALTHOUGH NO SPOTS CAN YET BE SEEN, REGION NUMBER 4263 HAS BEEN ASSIGNED TO THIS LOCALITY WHICH MAY BE THE RETURN OF OLD REGIONS 4234 OR 4236. REGIONS 4255 (N07W70) AND 4256 (S06W73) HAVE NOT PRODUCED OPTICAL ACTIVITY SINCE 25/2200Z. ANALYSIS IS HAMPERED BY LIMB PROXIMITY BUT 4255 HAS APPARENTLY SIMPLIFIED WHILE 4256, STABLE IN WHITE LIGHT, HAS INCREASED IN MAGNETIC COMPLEXITY. 4256 NOW CONTAINS MIXED POLARITIES INCLUDING A DELTA CONFIGURATION IN THE LEADER SPOT. MINOR SURGING WAS STILL REPORTED FROM THE WEST LIMB AT NW14 AND SW06 WHERE ACTIVE REGIONS EXITED TWO DAYS AGO.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TOMORROW, BUT WITH AN INCREASING CHANCE FOR SIGNIFICANT FLARES AS NEW REGION 4263 ROTATES INTO VIEW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 25/2100Z TO 26/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO QUIET FOR THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BE UNSETTLED TO QUIET UNTIL APPROXIMATELY MIDDAY ON 27 JULY, WHEN A GEOMAGNETIC STORM IS EXPECTED TO BEGIN. GEOMAGNETIC ACTIVITY SHOULD REACH MINOR TO MAJOR STORM LEVELS ON 28 JULY, SUBSIDING TOWARD ACTIVE LEVELS BY THE END OF THE FORECAST PERIOD. THIS STORM IS EXPECTED IN RESPONSE TO AN AUSPICIOUS FILAMENT DISAPPEARANCE ON 24 JULY AND CORONAL HOLES AT CENTER DISK ON 25 JULY.

III. EVENT PROBABILITIES 27 JUL-29 JUL

CLASS M	10/15/20
CLASS X	01/01/05
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	26 JUL	127 ✓
PREDICTED	27 JUL-29 JUL	120/123/125
90 DAY MEAN	26 JUL	134 -

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 JUL 015/018

ESTIMATED AFR/AP 26 JUL 010/015

PREDICTED AFR/AP 27 JUL-29 JUL 025/025-035/035-020/020

SOLTERWARN

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