

HFUS 1 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SDF NUMBER 164

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 12 JUNE 1980

IA. SOLAR ACTIVITY REMAINED LOW DURING THE PAST 24 HOURS. THE SUN'S
BEHAVIOR CONTINUES TO BE CHARACTERIZED BY SUBFLARES AND CLASS 'C'
'X' RAY BURST. IN SPITE OF THIS COMPRESSED LEVEL OF ACTIVITY, THE
10 CM RADIO FLUX IS STARTING TO RISE AND AT LEAST TWO DISK REGIONS
ARE MAGNETICALLY COMPLEX, REGION 2502 (N17E21) AND 2504 (S24W49),
BOTH CONTAIN DELTA CONFIGURATIONS. REGIONS 2502 AND 2511 (N12E21)
ARE IN SUCH PROXIMITY THAT CONTINUED GROWTH IN BOTH REGIONS MAY
WELL RESULT IN INTERACTION BETWEEN THE LEADER OF 2511 AND THE TRAILER
OF 2502. REGION 2504 IS NOT IMPRESSIVE BEYOND IT'S DELTA CONFIGURATION
ALTHOUGH AN INCREASE IN FLARE AREA HAS OCCURRED SINCE YESTERDAY.

A NEW SPOT GROUP WAS OBSERVED TODAY AT N08W18 AND IS NUMBER 2513.
SMALL SURGING AND A TINY FLARE WITH AN 'H' SPOT IS VISIBLE AT NE15
AND ANOTHER TINY FLARE IS ROTATING ON AT SE05.

IB. THE POTENTIAL FOR ENERGETIC ACTIVITY MAY NOT HAVE INCREASED
DURING THE PAST 24 HOURS BUT IT WOULD APPEAR THAT IT HAS
STOPPED DECLINING. REGION 2502 IS PROBABLY THE MOST LIKELY TO
PRODUCE ENERGETIC ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS SHOWN A SLOW RECOVERY FROM THE
STORM CONDITIONS OF THE PAST 48 HOURS OR SO. CONTINUED SLOW
RECOVERY IS EXPECTED WITH QUIET CONDITIONS PREVAILING BY LATE
TOMORROW.

III. EVENT PROBABILITIES 13 JUNE 15 JUNE

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 JUNE 186

PREDICTED 13 JUNE - 15 JUNE 194/200/209

90-DAY MEAN 12 JUNE 203

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 11 JUNE 37

ESTIMATED AFR/AP 12 JUNE 20/32

PREDICTED AFR/AP 13 JUNE - 15 JUNE 13/18 07/10 05/08

SOLTERWARN

BT