

HFUS 1 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 169

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 17 JUNE 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION
2517 (S13E54) PRODUCED THE LARGEST EVENT A C9/SN MAXIMUM 0020UT.
REGIONS 2514 (N16E16), 2519 (S21E63), 2511 (N12W44) AND 2507
(S13W35) ALL PRODUCED SMALL C-CLASS FLARES. NEW REGIONS 2523
(N24E77) SIMPLE A-TYPE, 2521 (N11W00) A FAST GROWING D-TYPE GROUP
AND 2522 (S28E71) A C-TYPE GROUP. HOWEVER LIMB PROXIMITY PREVENTS
DETAILED ANALYSIS. REGION 2517 MAY CONTAIN A DELTA, HOWEVER
CONFORMATION IS LACKING AT THIS TIME. EARLY MAGNETIC INFORMATION
INDICATES REGION 2519 MAY BE OF REVERSED POLARITY. CONTINUED LINE
PROBLEMS LIMIT X-RAY INFORMATION.

IB. SOLAR ACTIVITY IS EXPECTED TO INCREASE AS THE REGIONS ON THE
SOUTHEAST CONTINUE TO ROTATE ON THE DISK. REGIONS 2517/2519
APPEAR CAPABLE OF LARGE C-CLASS X-RAY EVENTS WITH A SLIGHT CHANCE
FOR A SMALL M-CLASS EVENT.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. THE FIELD IS
EXPECTED TO BE NEAR ACTIVE LEVELS ON 18 JUNE DUE TO THE EFFECTS
OF THE FILAMENT THAT DISAPPEARED ON 14-15 JUNE.

III. EVENT PROBABILITIES 18 JUNE - 20 JUNE

CLASS M 25/35/45

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 JUNE 191

PREDICTED 18-20 JUNE 195/198/205

90-DAY MEAN 17 JUNE 206

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 16 JUNE 10

ESTIMATED AFR/AP 17 JUNE 07/08

PREDICTED AFR/AP 18-20 JUNE 14/14 - 08/10 - 09/12

SOLTERWARN

BT