

HFUS 1 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 184

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 02 JULY 1980

IA. SOLAR ACTIVITY HAS BEEN SURPRISINGLY LOW SINCE YESTERDAY'S
X2/15 FROM REGION 2544 (S10W53). THE LARGEST EVENT TODAY WAS AN
UNCORRELATED C5 X-RAY BURST AT 0448Z MAXIMUM. REGION 2544 HAS
PRODUCED SEVERAL SUBFLARES, BUT SPOT AND MAGNETIC CONFIGURATIONS
CONTINUE TO DECAY. REGION 2547 (S22W72) IS GROWING SLOWLY AND
HAS PRODUCED A SUBFLARE AT 1143Z MAXIMUM. NEW REGIONS 2549
(S19W23) AND 2550 (N28E08) HAVE EMERGED ON THE DISK TODAY WITH
RAPID GROWTH REPORTED IN BOTH REGIONS. THE REMAINING DISK
REGIONS HAVE BEEN QUIET OR DECLINING SLOWLY. A FILAMENT LOCATED
BETWEEN N25W20 AND N43E15 (LOCATION VALID 02/0000Z) DIS-
APPEARED SOMETIME BETWEEN 0200Z AND 1200Z TODAY.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW EXCEPT FOR THE
POSSIBILITY OF AN ISOLATED M OR X-CLASS EVENT FROM REGION 2544.
REGION 2550 APPEARS TO CONTAIN TWO BIPOLAR SETS WITH STRONG ARCH
FILAMENTS WITHIN EACH SET INDICATING THE POSSIBILITY OF INTER-
ACTION AND SMALL FLARE PRODUCTION IN THE NEAR FUTURE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24
HOURS. THE SOLAR SECTOR BOUNDARY WHICH WAS EXPECTED TO INCREASE
THE GEOMAGNETIC FIELD TO ACTIVE LEVELS IS NOW LOCATED AT W75.
AN INCREASE TO ACTIVE LEVELS IS EXPECTED BY MID-ZULU DAY TOMORROW
AND IS EXPECTED TO REMAIN ACTIVE THROUGH THE DURATION OF THE
FORECAST PERIOD.

III. EVENT PROBABILITIES 03 JULY - 05 JULY

CLASS M 70/50/40

CLASS X 20/10/05

PROTON 10/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 JULY 150

PREDICTED 03-05 JULY 145/142/140

90-DAY MEAN 02 JULY 210

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 01 JULY 06

ESTIMATED AFR/AP 02 JULY 04/07

PREDICTED AFR/AP 03-05 JULY 10/12 - 16/18 - 16/18

SOLTERWARN

BT