

Boulder Forecast

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 167 ISSUED 2200Z 15 JUNE 1972

A. SOLAR ACTIVITY WAS QUITE LOW UNTIL 0927Z WHEN A SUBFLARE BEGAN IN REGION 237 /S10E05/. THIS FLARE PEAKED TWICE, ONCE AS A SB AT 0929Z AND AGAIN AS A 1B AT 0954Z. AN M1 X-RAY EVENT WAS ASSOCIATED WITH THIS SECOND MAXIMUM. DURING THE FLARE THE WIDE FILAMENT STRUCTURE NORTHWEST OF REGION 237 BECAME ACTIVATED AND HAS NOW DISAPPEARED. AT ABOUT 1250Z PLAGE STRIPS, FILLING WHAT IS APPARENTLY AN OLD FILAMENT CHANNEL BECAME ENHANCED TO FLARE LEVEL. THIS OLD CORRIDOR RUNS GENERALLY SOUTH OF REGION 237 AND THEN TURNS NORTH TO THE WEST OF 237 AND CROSSES THE SOLAR EQUATOR BETWEEN REGION 237 AND OLD REGION 244. THE ISLANDS OF PLAGE FILLING THE OLD CHANNEL STRETCH SOME 40 DEGREES IN LENGTH. ABOUT THE TIME THE PLAGE BECAME ENHANCED IN THE REGION 237/244 VICINITY, LOOPS APPEARED ON THE SOUTH ~~EAST~~ LIMB, APPARENTLY ASSOCIATED WITH NEW REGION 248 /S09E79/ WHICH HAS NOT YET COMPLETELY CROSSED THE LIMB. AN M5 X-RAY EVENT WAS NOTED WHICH WAS PROBABLY PRODUCED IN REGION 248 WHEN THE LOOPS WERE OBSERVED. REGION 243 /S13W29/ HAS GROWN SOME IN H-ALPHA BUT REMAINS SIMPLE MAGNETICALLY. OTHER REGIONS ARE UNIMPRESSIVE. THE GEOMAGNETIC FIELD HAS BECOME QUIET.

B. THE ACTIVE FILAMENTS AND THE ENHANCEMENT OF AN OLD FILAMENT CORRIDOR POINT TOWARDS A MAJOR REALIGNMENT OF THE MAGNETIC FIELDS IN THE ACTIVITY CENTER DOMINATED BY REGION 237. WHILE THE NEUTRAL LINE CONFIGURATION APPEARS UNCHANGED SINCE YESTERDAY THE REGION CAN BE THOUGHT OF AS MAINTAINING ITS POTENTIAL FOR ENERGETIC FLARES. THE REGION COULD EASILY DUPLICATE ITS EARLIER XZ FLARE BEFORE LEAVING THE DISK. BOTH REGION 237 AND REGION 248 MUST BE CONSIDERED CAPABLE OF PRODUCING AN M-CLASS FLARE AT ANY TIME. THE GEOMAGNETIC FIELD SHOULD REMAIN QUIET TO MILDLY UNSETTLED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 16 JUN/0000Z ENDING 18 JUN/2400Z.

CLASS M OR GREATER 75/75/75

CLASS X 10/10/10

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUXES FOR 15/1700Z AND 15/2000Z WERE 130 AND 144 RESPECTIVELY.

PREDICTED 10.7 CM FLUX FOR 16-18 JUNE IS 140/144/144.

E. MAGNETIC A-FREDERICKSBURG FOR 14 JUNE WAS 11. FOR 15 JUNE ABOUT 10. PREDICTED AP FOR 16-18 JUNE, 10/08/13.

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