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HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 284A ISSUED 1700Z 06 JUNE 1969
CLASS X FLARES ARE POSSIBLE DURING THE NEXT 6 HOURS, CLASS M
FLARES ARE EXPECTED.

A. HIGHLIGHTS FOR THE PERIOD 29 MAY - 05 JUNE 1969 CLM
THE N09(L316) REGION PRODUCED SEVERAL CLASS M EVENTS AND ONE CLASS
X EVENT PRIOR TO WEST LIMB PASSAGE ON 30 MAY. THE CLASS X EVENT (IMP
IB) OCCURRED AT 29/1940Z NEAR W80. THE REGION APPEARED TO BE SLOWLY
GROWING AT WEST LIMB PASSAGE, AND PIONEER 6 DATA SUGGESTS IT MAY
HAVE CONTINUED TO BE ACTIVE WHILE ON THE SOLAR BACKSIDE. FOLLOWING
WLP OF THE ABOVE REGION, SOLAR ACTIVITY DECLINED TO VERY LOW
LEVELS UNTIL 03 JUNE WHEN A LARGE COMPLEX OF ACTIVE CENTERS RETURNED
TO THE NE LIMB. CLASS X FLARES, BOTH IMP 2B, OCCURRED NEAR N11
(L083) BEGINNING 05/0929Z AND 05/1442Z. THESE FLARES WERE ASSOCIATED
WITH AN ACTIVE FILAMENT BETWEEN TWO SPOT GROUPS AT N09(L103) AND
N14(L089) WITHIN THE COMPLEX OF ACTIVE REGIONS. ACTIVE REGIONS ARE
STILL RETURNING AS OF THIS WRITING, INCLUDING A VERY LARGE REGION AT
N18(L064) WHICH IS THE LOCATION OF MAJOR PROTON FLARE ACTIVITY DUR-
ING THE LAST SEVERAL ROTATIONS. MORE ACTIVE REGIONS ARE DUE, WITH
LOOPS AND CORONAL RAIN STILL BEING REPORTED FROM EAST LIMB. AN
ADDITIONAL RETURNING REGION AT S14(L086) IS MAGNETICALLY COMPLEX AND
BRIGHT IN H-ALPHA. SMALL ENHANCEMENTS IN LOW-ENERGY PROTON FLUXES
WERE OBSERVED ON 31 MAY AND 05 JUNE. THESE WERE OF SMALL MAGNITUDE
AND DECAYED RAPIDLY, AND HIGH-ENERGY FLUXES REMAINED AT BACKGROUND
NEAR EARTH. ONLY MINOR MAGNETIC ACTIVITY WAS OBSERVED DURING THE WEEK.

B. FORECAST FOR THE WEEK 07-12 JUNE 1969 CLM
MAJOR ACTIVITY IS EXPECTED FROM THE N09-18(L110-060) COMPLEX OF
ACTIVE REGIONS THROUGHOUT THE WEEK. OCCASIONAL MAJOR ACTIVITY IS
EXPECTED FROM THE S14(L086) REGION.

28-DAY FORECAST FOR 07 JUNE - 05 JULY 1969 CLM
SOLAR ACTIVITY SHOULD BE ENHANCED ALL THROUGH THIS PERIOD, WITH
GREATEST ACTIVITY 07-17 JUNE AND 01-05 JULY. REGIONS RETURNING
13 JUNE ARE ALSO EXPECTED TO BE ACTIVE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 06/1700Z ENDING 09/1700Z.

CLASS M OR GREATER 95/95/95

CLASS X 45/60/60

PROTON EVENTS 33/33/33

D. OTTAWA 10.7 CM FLUX TODAY IS 193. PREDICTED 215/225/225.

E. N/A

F. KP ESTIMATED FOR 1200-1500Z WAS 01. KP FORECAST FOR THE NEXT
24 HOURS PER KP 15.3; 2/2/2/2/2/2/2/2.

SOLTERWARN

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THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 284B ISSUED 2300Z 6 JUNE 1969
A SINGLE CLASS X FLARE IS VERY LIKELY DURING THE NEXT 18 HOURS.
TWO OR MORE CLASS M'S ARE ALSO EXPECTED.

A. A NOT PARTICULARLY ENERGETIC-AT LEAST AT LOW FREQUENCIES-CLASS
M FLARE BEGINNING 0947Z OCCURRED WITHIN THE MAGNETICALLY COMPLEX
REGION NOW NEAR S16E43. AS A POINT OF INTEREST THE START TIME WAS
VERY NEARLY 24 HOURS SINCE THE LAST MAJOR OPTICAL EVENT FROM THIS
LONGITUDE. THE SECOND SUCH FLARE OF THE DAY BEGAN ABOUT 1602Z NEAR
N11E22. THIS SOMEWHAT ELONGATED SPOT GROUP IS LESS THREATENING IN
WHITE LIGHT THAN THE SE REGION, BUT MUCH MORE DEVELOPED IN H-ALPHA.
FLARES ORIGINATING THERE DO PRODUCE STRONGER RADIO AND X-RAY
EMISSIONS.

B. THE SE CENTER HAS SIGNS OF DEVELOPMENT SIMILAR TO A PAST PROTON-
PRODUCING REGION ON RECORD. THIS COMPARISON TECHNIQUE WILL BE EMPHA-
SIZED MORE SO IN THE IMMEDIATE FUTURE OF THE TRAILING PORTION OF THE
S16E43 SPOT GROUP DECLINES WITHIN THE NEXT 2 DAYS, FORMING AN ESSEN-
TIALLY UNIPOLAR SUNSPOT. PAST HISTORY OF CARRINGTON LONGITUDE 70
MAKES THE PROBABILITY OF A PROTON EVENT QUITE HIGH THESE NEXT 5 DAYS.
SECTIONS C AND D REMAIN UNCHANGED FROM SDF 284A.

E. MAGNETIC A-FREDERICKSBURG FOR 5 JUNE WAS 05. FOR 6 JUNE ABOUT 04.
PREDICTED AP FOR 7-9 JUNE 9/11/14.

BT