SOLAR ECLIPSE

ED.MATTHEWS

CANADIAN DISTRICT REPRESENTATIVE

THE PHOTOGRAPHIC SOCIETY OF AMERICA.

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WARNING: SUN CAN BURN EYES WITHOUT YOUR KNOWLEDGE

FIRST I WOULD LIKE TO THANK GORDON HUGHES OF CANDIAN KODAK, FOR HIS PERSONAL HELP IN SUPPLING ME WITH INFORMATION, REGARDING THIS SOLAR ECLIPSE; AND ALSO CANADIAN KODAK'S EDITORIAL SERVICE BUREAU FOR NEWS LETTER # 605.

LOOKING AT THE UNSHIELDEDGFACE OF THE SUN WITH THE NAKED EYE OR THROUGH ANY OPTICAL DEVICE, SUCH AS THE VIEWFINDER OF A CAMERA, CAN SERIOUSLY DAMAGE THE EYE,

ADEQUATE PROTECTION MEANS LOOKING AT THE SUN THROUGH A MATERIAL WHICH WILL NOT ONLY REDUCE THE VISIBLE ENERGY OF THE SUN FOR COMFORT, BUT WHICH EQUALLY & SUFFICIENTLY REDUCES THE INVISIBLE ULTRAVIOLET & INFRARED RADIATION WHICH CAN CAUSE INSTANT DAMAGE, INCLUDING BLINDESS, WITHOUT A PERSON'S BEING AWARE OF IT.

MEDICAL AUTHORITIES SUGGEST THAT A NEUTRAL DENSITY FILTER OF METALLIC SILVER OF AT LEAST 6.0 DENSITY WILL PROVIDE ADEQUATE PROTECTION WHEN PLACED IN FRONT OF THE EYES BEFORE FACING THE SUN.

SUCH A FILTER CAN BE MADE WITH TWO THICKNESSES OF BLACK & WHITE FILM NOT COLDR FILM. WHICH HAS BEEN COMPLETELY EXPOSED TO DAY LIGHT & FULLY DEVELOPED TO MAXIMUM DENSITY. IT CAN BE PREPARED BY SUBJECTING THE FILM TO DAYLIGHT & FULL DEVELOPMENT, ACCORDING TO THE MANUFACTURER'S DIRECTIONS.

SUCH METALLIC FILTERS SHOULD BELWAYS BE USED WHEN VIEING THE SUN. HOWEVER, SUCH FILTERS WILL NO NOT BE SATISFACTORY FOR USE OVER A CAMERA LENS WHEN MAKING A PHOTOGRAPHIC EXPOSURE SINCE THE GRAIN PATTERN WILL DIFFUSE THE IMAGE & MAKE IT UNSHARP.

A FILTER SUCH AS A KODAK WRATTEN NEUTRAL DENSITY FILTER SHOULD BE USED OVER THE CAMERA LENS. THE DENSITY OF THE FILTER SHOULD BE 4.0 OR 5.0 . DO NOT VIEW THE SUN THROUGH THIS FILTER IF YOU MBE A MOVIE CAMERA, SET IT FIRMLY ON A TRIPOD, & SHOOT SHORT BURSTS OF SIX OR EIGHT FRAMES. PRESS & RELEASE SMOOTHLY & DO NOT PUNCH THE BUTTON. THIS SHOULD BE REPEATED WITHOUT MOVING THE CAMERA ABOUT EVERY TWO OR THREE MINUTES.

THE ONLY ACCURATE WAY TO DETERMINE EXACT OR CORRECT EXPOSURE DURING THE PARTIAL PHASES IS TO TAKE A TEST ROLLOF PHOTOS ON A SUNNY DAY SEVERAL DAYS BEFORE THE ECLIPSE.

THE SUNS BRIGHTNESS REMAINS ABOUT THE SAME UNTIL THE IMAGE OF THE MOON OBSCURES SOME 90

PERCENT OF THE SUN. BE SURE TO USE SAME FILTERS IN TESTS AS YOU WILL USE FOR ECLIPSE.

KODACHROME II (8MM) OR (16MM) Daylight Type movie Film	LENS OPENING; F/16 WITH N.D.FILTER 4.0	1/100 64 FRAMES
VERICHROME PAN. ROLL FILM 4.0 FILTER EKTACOLOR TYPE S ; 4.0 FILTER	LENS OPENING F/32 LENS OPENINGF/22	1/200 1/200
F.P.3 ROLL 35MM BLACK & WHITE	LENS OPENING F/22	1/200
4.0 N.D.FILTER	LENS OPENING F/32	