

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	60-0001		Material reproduced from books (charts) pertaining to the Eye	J. Taylor	4x5	
	60-0002		Chart: Optic Efficiency	A. Boileau		1
	60-0003		Integrating Sphere	J. Tyler	4x5	
	60-0004		Simulator Sphere	S. Duntley		
	60-0005-1		Photos: View Box, for the Search Light Program	"	4x5	
	-2		Photos: the Search Light	"	"	
	60-0006		Spectral Analysis of Plus-X Pan	J. Rennilson		
	60-0007		--NO NEGATIVE. Aperture	J. Taylor		
	60-0008		--NO NEGATIVE. Test Exposure of Sphere	R. Austin		
	60-0009		Charts: Contrast Threshold	C. Edgerton	4x5	
	60-0010		--NO NEGATIVE. Arctic Simulator Test.	R. Austin		
	60-0011		████████████████████	J. Tyler	4x5	
			Charts for Speech			
	-1		Graph: Depth in Meters vs Relative Spectral Sensitivity vs Total Radiance in Watts	"	"	1
	-2		Graph: Transmission	"	"	1
	-3		Graph: Point-Reference	"	"	1
	-4		Graph: Spectral Transmittance NO. 29	"	"	1
	-5		Graph: Radiance Distribution; Lake Pond Oreille, Idaho; Azimuth Angle; 28 April 1957	"	"	1
	-6		Graph: Meters of Water	"	"	1
	60-0012		Charts for Speech	J. Tyler		3
	60-0013-1	Searchlight	Diagram: Light Ray Path Through a Retro-Directive Reflector	J. Rennilson	"	

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	60-0013-2	Searchlight	Diagram: Thin, ground fog, smoke, haze, wind-blown smoke. Observers 1, 2, 3, 4.	J. Rennilson	4x5	
	-3	"	Diagrams: Ground Layout of Portable Visibility Lights, Fig. 15, 16	"	"	
	-4	"	Graph: Degrees from Axis of Searchlight Beam.	"	"	
	60-0014		Photos: Underwater Nepelometer	J. Tyler	"	4
	60-0015		Charts: Nerve Message, Optical Efficiency	J. Taylor	"	10
	60-0016		Charts: Scattering; for article	J. Tyler	"	
			1-junction box			
			2-diagram			
			3-Pulfrich Photometer			
	60-0017		Divers <i>Relative Sensitivity</i>	J. Tyler S. Duntley	"	3
	60-0018		Graph: Log Threshold Contrast vs Log Target Diameter	J. Taylor	"	
	60-0019		Test Exposure Refractometer	A. Boileau	"	
	60-0020		Graph: Directional Scattering for Polystyrene Latex	J. Tyler	"	5
			Spheres in Distilled Water.			
			Optic Design			
	60-0021		Graph: Log Liminal Contrast vs Log Visual Angle	J. Taylor	"	
	60-0022		Pictures used in report 5/16/60. Negatives are 61-0056; 60-0014; 59-0038; 59-0001; 58-0049; 57-0023; 55-0402	J. Tyler	"	
	60-0023-4-31		Binocular Depth Perception---Bell Tel & Tel	S. Duntley	"	
			each neg. has a Fig. number			
	60-0024		Copies of Flare Report	R. Austin	"	
	-1		Fig. 9. Third Firing. Depth: 24 feet.	"	"	
	-2		Fig. 8. Underwater photograph showing field of view of camera.			

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	60-0025-1		Graph: Spectrophotometer vs Nephelometer, Oct. 20, 1959	J. Tyler	4x5	
	-2		Graph: Volume Scattering Function; Nov. 12, 1959	"	"	
	-3		Graph: Spectrophotometer vs Nephelometer, Nov. 12, 1959	"	"	
	-4		Graph: Sea Water Attenuation in the optical region	"	"	
	60-0026-1		Graph: Relative Energy Sky; Sensitivity Eye;	J. Taylor	"	
			Transmission filter			
	-2		Graph: Stellar Magnitude vs Illumination	"		
	-3		Chart: Relative Efficiency (Naked Eye) according to	"	"	
			3 observers			
	-4		Graph: x vs y	"	"	
	60-0027		Diagram: Optical System	J. Tyler	"	
	60-0028-1-4		Igloo Research Project (Sky Simulator)			
			negatives show the Simulator and some equipment within.	R. Austin	"	
	60-0029		Graph: Swimmer Nomograph Report	S. Duntley	"	
			Adaptaion Luminance vs Target Reflectance -			
			Bottom Reflectance			
	60-0030		Schematic; Viewbox used in Searchlight Report		"	
	60-0031		Wavelength vs Thickness Wratten 78AA Filter	J. Taylor	"	
	60-0032		Threshold holds contrast	"		
	60-0033		Destroyer Model used in Simulator	J. Hood	"	
	60-0034		Charts for report -- Observers' Data	J. Taylor	"	
	60-0035		Photos of ship models	C. Edgerton	"	
	-1		submarines	"	"	
	-2		cruiser	"	"	
	-3		aircraft carrier	"	"	
	60-0036-1-8		Igloo Research Project (Sky Simulator). Equipment is	R. Austin	"	
			also shown			

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					NEGATIVE	SLIDE
	60-0037		Charts	A. Boileau	4	
	60-0038		Ground Gonio	E. Martz	4x5	
	60-0039		TV Marker	R. Ensminger		
	60-0040-1		Chart: Some Theoretical Relations among the Various Optical Properties	R. Preisendorfer	4x5	
	-2		Chart: Operational Definitions of Inherent Optical Properties	"	"	
	-3		Chart: Operational Definition of Apparent Optical Properties, Hybrid Properties	"	"	
	-4		Chart: Classification of Optical Properties of the Sea	"	"	
	-5		Chart: Two-Flow Analysis of Light Field	"	"	
	60-0041		Airplanes: B-52, B-56	J. Gordon		
	60-0042-1		Fig. 3. Line of Sight of Spectrogeograph	A. Boileau	4x5	1
	-2		Fig. 5. Graph -- Wavelength	"	"	
	-3		Fig. 7. Solar Spectral Irradiance from F. S. Johnson	"	"	
	-4		Fig. 8. Graph -- Wavelength	"	"	
	-5		Fig. 4. Normalized Spectral Radiance; Relative Humidity (2 graphs on the one negative)	"	"	
	-6		Optical System of Spectrogeograph	"	"	
	-7		Fig. 1. Sea Level	"	"	
	-8		Chart: Optical System of Spectrogeograph	"	"	8
	-9		Graph: Target Diameter vs Threshold Contrast	"	"	
	-10		Graph: Relative Humidity vs Spectral Radiance	"	"	
	60-0043-1-5		Tables: SIO Ref. 60-46	H. Richardson	"	
	60-0044	VTC	Fifo, Ex I	J. Taylor	"	
	60-0045		180 Camera	A. Boileau	glass neg.	

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DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	60-0046-1-3		Photos: Meteorological Range Meter (M.R. Meter)	S. Duntley	4x5	
	60-0047		Photos:	S. Duntley	35 mm	
	60-0048		Photo: Relay Control for Ape Machine	J. Taylor	4x5	
	60-0049-1		Photo: Electronic Light Regulator: Power Transformer	R. Howarth	"	
	-2		Photo: "	"	"	
	-3		Photo: "	"	"	
	60-0050	C-130	Photo: E Meter Cap	A. Boileau	"	
	60-0051-1		Schematic: Densitometer Corrector, Power Supply for Tapped Pontentiometer	R. Ensminger	"	
	-2		Schematic: Densitometer Corrector, Multiplier Phototube Control Unit	"	"	
	-3		Schematic: Densitometer Corrector, Control Box	"	"	
	-4		Schematic: From Power Supply Bus to Power Strip	"	"	
	60-0052		Charts for reports	S. Duntley	"	5
	-1		Diagram: Photometer or Camera; Fig. 1	"	"	
	-2		Diagram: Fig. 2; Lamp	"	"	
	-3		Graph: Beam Spread (Degrees),	"	"	
	-4		Graph: Fig. 4. Source Distance vs Irradiance	"	"	
	-5		Graph: Fig. 5. Beam Spread vs Irradiance	"	"	
	-6		Graph: Fig. 8. Beam Spread vs $\sqrt{8}$	"	"	
	-7		Graph: Fig. 9. Beam Spread vs Efficiency	"	"	
	60-0053		Schematic: Photometric Lamp System Control System	"	"	
	60-0054	D I	--NO NEGATIVE** Diamond Island	S. Duntley		
	60-0055		--NO NEGATIVE** Case 5651	J. Tyler		
	60-0056		Airplane Models (photo)	J. Gordon	4x5	
	60-0057	503	Chart	J. Harris B. McGlamery		

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DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	60-0058	Star Study	Graph: Wavelength vs Relative Energy (Black Body, Zenith Sky)	J. Taylor	4x5	
	60-0059	5651	Graphs: Log $\frac{1}{W}$	J. Tyler	4x5	
	60-0060		E Meter Cap	A. Boileau		
X	60-0061		Material for SIO 60-16, Airport Visibility	J. Rennilson	4x5	21
	-1		Diagram: Reflector	"	"	
	-2		Graph: Reflector Efficiency vs Divergence Angle (Fig. 11)	"	"	
	-3		Graph: Fig. 12. Reflector vs Divergence Angle	"	"	
	-4		Graph: Fig. 18. Thousands of Feet	"	"	
	-5		Graph: Fig. 19. The Effect of Dirt on Searchlight Window and Reflector Surface	"	"	
	-6		Graph: Fig. 17. d/V_5	"	"	
	60-0061-7		Photo: A Reflector type	"	"	
	-8		Photo: A Reflector type	"	"	
	-9		Photo: A Reflector type with man	"	"	
			--also included in 60-0061 are 60-0016, 60-0005, 60-0013, and 60-0036			

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DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	61-0001		Spectral Response of Photocathode Tubes (from RCA folder)	R. Austin	4x5	
	61-0002		Graph: Rod and Cone Count on 180° - 0° Meridian	J. Taylor	4x5	
	61-0003		Photo: The Alpha Meter.	J. Tyler	4x5	
	61-0004		Schematic: Densitometer Corrector; Phototube Control Unit.	R. Ensminger	4x5	
	61-0005		Photo: Airport Visibility. A B C D 60-0005 and 60-0061 from Report 60-0016	J. Rennilson	4x5	
	61-0006 -1		Fig. 5: Light vector diagram in perpendicular plane including sun, at several depths.	J. Tyler	4x5	
	-2		Fig. 7 " "	J. Tyler	4x5	
	61-0007		Targets and Grey Scales.	R. Howarth		
	61-0008-1		Log Photometer System.	R. Ensminger	4x5	
	-2		" "			
	61-0009-1		Strobe Disk, dots in spiral pattern.	J. Taylor	4x5	
	-2		" , stick-man running	"	"	
	-3		" , offset concentric quadrangles	"	"	
	-4		"	"	"	
	-5		"	"	"	
	61-0010		Chart for J. Tyler -- NO NEGATIVE	J. Tyler		
	61-0011		Graph: Horizontal intersection of detection lobe with target space 500 ft. altitude.	S. Duntley	4x5	2
	61-0012-1		Chart: Target projection	J. Taylor	4x5	2
	-2		Chart: " "	"	"	2
	61-0013	RADI	--FOR THE WASHINGTON REPORT: 3/22/61	J. Harris	"	48 total
	-1	RADI	Typical Transfer Function vs Spatial Frequency (Graph)	"	"	

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					NEGATIVE	SLIDE
	61-0013-2	RADI	Recovered Transfer Function.	J. Harris	4x5	
	-3	"	Graph: Spatial Frequency vs Transmittance.	"	"	
	-4	"	Graph: Sample Distortion of a Pulse.	"	"	
	-5	"	Graph: Power Spectrum Integral	"	"	
	-6	"	Graph: Noise Level After Restoration and " Before "	"	"	
	-7	"	Graph: Fourier Representation of A Pulse	"	"	
	-8	"	Graph: Recovery of the Pulse on.	"	"	
	-9	"	Graph: Typical Transfer Function.	"	"	
	-10	"	Graph: Geometrical Considerations	"	"	
	-11	"	Drawing: Missile	"	"	
	-12	"	Factors Which Determine Performance	"	"	
	-13	"	Line Drawing: Target Optical Presentation Equipment.	"	"	
	61-0014		Stellar Magnitude Recorder; corrected to 50,000 Feet Altitude.	J. Tyler.	"	
	61-0015		Aerial Recon. Photo of German Airport.	S. Duntley	"	
	61-0016		Polaroid Shots of Barge Point Glass.	"	"	
	61-0017		Lath Shot Showing How Sea State Surfaces are Made.	"	"	
	61-0018		Normal Modification Operation, I. O. Modification.	J. Harris	"	
	61-0019		Pulsed Operation, I. O. Modification.	"	"	
	61-0020		I. O. Modification, used in Report.	"	"	3
	61-0021		B-52 Photo's used in SAC Report.	J. Gordon	"	
	61-0022		Coast Guard Report.	H. Richardson	"	
	61-0023-1		Eye Chart	S. Duntley	"	/
	-2		Spiral	"	"	/
	-3		Drawing #### looks like crooked fences	"	"	/

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	61-0023-4		Drawing: the Eye	S. Duntley	4x5	1
	-5		Drawing: the Eye at rest with accomodation relaxed, focusses.	"	"	1
	-6		Drawing	"	"	1
	-7		Drawing: the Eye blurred by contac lenses.	"	"	1
	-8		Fig. 38 showing a hyperopic eye, corrected for distortion	"	"	1
	-9		Graph: Angle from Sun vs E_q (1000, θ , ϕ)	"	"	1
	61-0024-1	RADI	Photographs of Sun Wave Input to TV Monitor. (3)	J. Harris	"	4
	61-0025-1		Camera Gonio.			
	-2		Camera Gonio			
	61-0026-1	C-130	Graph: R-Ground Reflectance. Conference 4/24-26/61	A. Boileau	"	1
	-2	"	Graph: Relative Sensitivity, Photopic Sensitivity.	"	"	1
	-3	"	Graph: Photopic Record.	"	"	1
	-4	"	Diagram of Airplane with Equipment in Place.	"	"	1
	-5	"	Graph: Flight 120, 6/21/58. Central Minnesota.	"	"	1
			--Red Record.			
	-6	"	" " --Blue Record	"	"	1
	-7	"	" --Red Record: Irradiance from Sky, from Sun, and Total Irradiance.	"	"	1
	-8	"	" --Illuminance, Downwelling $E(2,-)$ Lumens FT ⁻²	"	"	1
	-9	"	" --Luminance, Nadir $B(2, 180^\circ, 0)$	"	"	1
	-10	"	" --Apparent Attenuation Length -- Blue, Photopic, Red.	"	"	1
	-11	"	" --Radiance (Blue Record)	"	"	1
	61-0027		Conference 4/24-26/61	J. Taylor		2

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	61-0028		B-52 neg.'s (61-0021) used for Conference 4/24-26/61	J. Gordon		
	61-0029		Graph: Visual Threshold Data	C. Fean	4x5	
	61-0030		--combined with 60-0031	A. Boileau	4x5	6
	61-0031-1	C-130	Diagram	A. Boileau	4x5	1
	-2	"	Diagram	"	"	1
	-3	"	Diagram: Attenuation Meter Prisms	"	"	1
	-4	"	Photo	"	"	1
	-5	"	Graph	"	"	1
	-6	"	Graph	"	"	1
	-7	"		"	"	1
	-8	"	Graph	"	"	1
	-9	"	Graph	"	"	1
	-10	"	Graph	"	"	1
	-11	"	Graph	"	"	1
	61-0032-1		Graph: Absorption Spectra of Chlorophyll <u>b</u> and pheophytin <u>b</u> in ether (National Science Foundation)	J. Tyler	"	
	-2		Graph: Absorption spectra of chlorophyll <u>a</u> and pheophitin <u>a</u> in ether	"	"	
	-3		Graph: Absorption spectra of chlorophyll <u>c</u> and pheophitin <u>c</u> in ether	"	"	
	61-0033-1		Photos: Peggy church with recorder	P. Church	"	
	-2		Photos: Peggy Church kneeling inside Sky Simulator.	"	"	
	61-0034		Telescanner	S. Duntley	"	
	61-0035		Photo: Air-borne Turbidity Meter	J. Taylor	"	
	61-0036	C-130	Drawing: Airplane with Equipment aboard.	A. Boileau		1
	61-0037		Graph: Wave forms -- Exacta Shutter Calibration	S. Duntley	"	

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	61-0038-1		Underwater Low Angles Projector, Beam Pattells	S. Duntley	4x5	
	61-0038-2		Underwater Low Angle Projector, Beam Pattells	"	"	
	61-0038-3		" Beam Patterns	S. Duntley	4x5	
	61-0039-1		Graph: Beam Density vs Degrees from Axis of Searchlight	J. Taylor	4x5	
			Beam			
	-2		Graph: Airport Vis.; Reflector Efficiency vs Divergence	"	"	
			Angle			
	-3		Graph: Airport Vis.; Reflector Efficiency vs Divergence	"	"	
			Angle			
	-4		Graph: (d) Thousands of Feet vs % Error in d.	J. Taylor	"	
	-5		Graph: Transition Line from Hexagonal to Rectangular	J. Taylor	"	
			Retroreflectors			
	-6		Graph: Airport Vis.; -10% Error in V_5	"	"	
	-7		Graph: Airport Vis.; Recorder trace	"	"	
	61-0040-1	RADI	Graph: Amplitude vs Position	J. Harris	"	/
	-2	"	Graph: Frequency vs Amplitude	"	"	/
	-3	"	Graph: Amplification - Attenuation	"	"	/
	-4	"	Graph: Relative Time, Altitude in Feet vs Data from	"	"	/
			SIO 60-22; April 1960, Flight 112, May 16, 1957, Crestview, Florida.			
	-5	"	Graph: Spatial Frequency vs Power Spectrum Amplitude	"	"	/
	-6	"	Graph: Flux Density vs Displacement	"	"	/
	-7	"	Graph: Position vs Amplitude	"	"	/
	-8	"	"	"	"	/
	-9	"	"	"	"	/
	-10	"	"	"	"	/

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	61-0040- ^{11 to} 14	RADI	Graphs: Position vs Amplitude	J. Harris	4x5	4
	- ^{15 to} 19	"	Graphs: Frequency vs Amplitude	"	"	5
	-20	"	Graph: Displacement vs Flux Density	"	"	1
	- ^{21 to} 24	"	Graph: Displacement vs Amplitude	"	"	4
	-25	"	Graph: Contrast Transmittance for 50-Mile Horizontal Path.	"	"	1
	61-0041-1	503	Schematic: Pulsed Image Orthicon Focus Coil, Current Pulser.	"	"	
	-2	"	Schematic: Pulse Image Orthicon Target Control Sawtooth Generator	"	"	
	-3	"	Schematic: Pulse Image Orthicon Switching Panel	"	"	
	-4	"	Schematic: Pulsed Image Orthicon Block Diagram	"	"	
	-5	"	Schematic: Produces 400 Pulses of Variable Width as Short as 5 Sec.	"	"	
	-6	"	Schematic: Produces 400 Pulses of Variable Width as Short as 5 Sec.	"	"	
	-7	"	Schematic: Pulse Image Orthicon - Variable Counter 5-Pole, 3 Pos; non-shorting	"	"	
	61-0042-1	"	Photo: Photo Cell, I. O. Modification	"	"	1 } 3
	-2	"	Photo: I. O. Modification	"	"	1 }
	61-0043-1		Graph: General Electric Photometer, Relative Spectral Sensitivity	A. Boileau	"	1
	-2		Graph: General Electric Recording Spectrophotometer Wavelength in Millimicrons. No. 334 No. 335	"	"	1
	-3		Graph: Recording Spectrophotometer, Wavelength in Millimicrons. Relative to No. 337	"	"	1

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	61-0043-4		Graph: Relative Spectral Sensitivity Tube Sensitivities	A. Boileau	4x5	1
	-5		Formula and Diagram -- Box	"	"	1
	-6-7		Diagram of Sphere, and Formula	"	"	2
	61-0044-1		<i>wavelength in microns</i> Total attenuation coefficient Chesapeake Bay water	J. Tyler	"	1 (11 total)
	-2		Graph: Percent Space-Light (Hydrosol without Dye)	"	"	1
			vs Wavelength in Millimicrons			
	-3		Graph: Percent Transmittance (Distilled Water) vs	"	"	1
			Wavelength in Millimicrons			
	-4		Graph: Rate of Photosynthesis, relative	"	"	1
	-5		Graph: Density vs Wavelength (millimicrons)	"	"	1
	-6		Graph: Density vs Wavelength (millimicrons) Scenedesmus	"	"	1
	-7		Chart: Russian; shows Australia and SE Asia and W.	"	"	1
			United States			
	-8		Graph: German	"	"	1
	-9		Chart: Russian	"	"	1
	61-0045		Underwater Light Patterns	S. Duntley	35 mm	
	61-0046-1	C-130	Photo: One form of the E Meter	A. Boileau	4x5	1
	-2	"	Drawing: h Meter	"	"	1
	-3	"	Diagram: Equilibrium Luminance Telephotometer	"	"	1
	-4	"	Formula: When normalized S_{test}/S_{std}	"	"	1
<i>Light</i>	61-0047-1	<i>Fig. 2</i>	Graph: Relative Energy vs Wavelength in Millimicrons	S. Duntley	"	1
<i>in the</i>	-2	<i>Fig. 3</i>	Graph: Infinite	"	"	1
<i>lab</i>	-3	<i>Fig. 1</i>	Graph: Relative Energy vs Wavelength in Millimicrons;	"	"	1
			Sand depth, Gulf Stream			1
	-4		Diagram: Photometer or Camera	"	"	1
	-5		Graph: Fig. 5. Lamp Distance vs Irradiance	"	"	1

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<i>Light</i>	61-0047-6	<i>Fig. 16</i>	Graph: Lamp Distance vs Irradiance	S. Duntley	4x5	1
<i>in the</i>	-7	<i>Fig. 14</i>	Graph: Fig. 3. Apparent Radiance of the Lamp vs Lamp Distance	S. Duntley	"	1
<i>See</i>	-8		Mathematical Formula	"	"	1
	-9		Mathematical Formula	"	"	1
	61-0048		--Plastic material - Leo Rogers - NEGATIVE DESTROYED			
	61-0049	NSF	Photo: Spectrograph, the Tank	J. Tyler	"	1
	61-0050		--for Optical Society speech	S. Duntley		(24 total)
	-1		Chart: Atlantic, Between Madeira and Gibraltar	S. Duntley	"	1
	-2		Graph: Attenuation Function for Scalar Irradiance	"	"	1
	-3		Diagram-formula, Distilled Water	"	"	1
	-4		Diagram-formula, Pure Water	"	"	1
	-5		Graph: Comparison of Irradiance Produced by Lamps of Equal Radiant Intensity	"	"	1
	-6		Formula: $P_r = P_o e^{-\alpha r}$	"	"	1
	-7		Chart: Attenuation Length of Location	"	"	1
	-8		Diagram-formula; Inclined Path, Horizontal Path	"	"	1
	-9		Graph: Collimated Lamp; Irradiance vs Lamp Distance	"	"	1
	-10		Graph: Depth vs Radiance	"	"	1
	-11		Graph: Irradiance vs ϕ ; Irradiance Meter, Irradiated Plane	"	"	1
	-12		Graph: Irradiance vs Position of Irradiance Meter Y (feet)	"	"	1
	-13		Diagram: 1. Screen or Photographix Film 2. Camera with no lense; watertight enclosure; optically flat window	"	"	1

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					NEGATIVE	SLIDE
	61-0050-14		Graph: Collimated Lamps, negligible diameter	S. Duntley	4x5	1
	-15		Diagram	S. Duntley	"	1
	61-0051	Bull Pup	--6 neg.'s are in CONFIDENTIAL file	"	"	11
	61-0052		Airplane Carrier. Film strip also charts (3 CONFIDENTIAL for Dr. Duntley in Washington	J. Harris		21
	61-0053-1		Photo: B-52 Airplane, top view; SAC	C. Edgerton	"	
	-2		Photo: B-52 Airplane, overhead view at angle, SAC	"	"	
	61-0054		Equipment	D. Hooton	"	
	61-0055-1		Graph: Log Target Diameter vs Log Threshold Contrast	J. Taylor	"	
	61-0055-2		Graph: Relative Energy, Sensitivity, Transmission	"	"	
	61-0055-3		Graph: Target Diameter vs Threshold Contrast	"	"	
	61-0056-1	NSF	Graph: Vertical Distance vs Horizontal Distance (Converges at this point) <i>Underwater Manhole</i>	J. Tyler	"	1 (15 total)
	-2	"	Graphs: Vertical Distance vs Horizontal Distance 1-Converges to this point at 75 feet 2-Converges to this point at 65 feet	"	"	1
	-3	"	Graphs: Vertical Distance vs Horizontal Distance 1-Converges to this point at 74.5 feet 2- " " 37 "	"	"	1
	-4	"	Graph: Vertical Distance vs Horizontal Distance Converges to this point at 74.5 feet	"	"	1
	-5	"	Graph: Rate of Photosynthesis is 0 at 1000 Lux	"	"	1
	-6	"	Graph: Vertical Distance vs Horizontal Distance Converges to this point at 75 feet	"	"	1
	-7	"	Graph: Vertical vs Horizontal 1-Converges to this point at 75 feet 2- " " 65 "	"	"	1

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	61-0056-8	NSF	Graph: Final Rate of Oxygen Evolution vs Light Intensity	J. Tyler	4x5	/
	-9	"	Graphs: Vertical Distance vs Horizontal Distance 1-Converges to this point at 74.5 feet 2- " " 37 "	"	"	/
	-10	"	Graphs: Vertical Distance vs Horizontal Distance 1-Converges to this point at 75 feet 2- " " 65 "	"	"	/
	-11	"	Graph: Percent Reflectance $\Delta\phi$ at 20° represents 142 feet. Observer at Depth of 140 feet. 406 feet from Seine. NET CALCULATIONS	"	"	/
<i>Underwater</i>	-12	"	Photo: K Meter	"	"	/
<i>mantle</i>	-13	"	Photo: 180° water negatives (35 mm strips)	"	"	/
	61-0057		Chart: Illumination in Foot Candles Corresponding to the Sun's Altitude		"	
	61-0058		Photo: Underwater Specimen	S. Duntley	"	
	61-0059		Photos: Instrument	J. Taylor	"	
	61-0060		Photos: B-52 and B-47 wing-span		"	
	61-0061		Photos: Submarine models	J. Gordon	"	
	61-0062		Photo: Observers in Vision Cube	J. Taylor	"	
	61-0063		TV Experiment. Illustration of the affect of time averaging.	J. Harris	"	
	61-0064		Shimmer Prints	R. Ensminger	"	
	61-0065		Graph: Wavelength	J. Taylor	"	
	61-0066		Chart	J. Tyler	"	
	61-0067		Graphs: Eye	J. Taylor	"	

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	1962 DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	62-0001		Charts: German Article	J. Tyler		
	62-0002		Prototype Equipment: NBT Optics	D. Webb	4x5	
	62-0003-1	RADI	Sketch: I. O. Experiment	J. Harris	4x5	3
	-2	RADI	Image Orthicon Equipment	J. Harris	4x5	3
	-3	RADI	VTC	J. Harris	4x5	3
	62-0004		Gonio Pictures: Cruiser and Tank	J. Gordon	35 mm	
	62-0005	RADI	RADI Integration Noise	J. Harris	Large	
	62-0006		180° Equipment (colored)	A. Boileau		
	62-0007		Charts:	J. Tyler		
	62-0008		Chart: Fig. 3. The distribution of illuminance the retina across the geometrical image of a boundary light and dark area.	J. Taylor	4x5	
	62-0009-1 - 3		Optical Targets -- circles	D. Webb	4x5	
	62-0010		Chart	J. Tyler		
	62-0011		Chart	J. Tyler	Large	
	62-0012	Misc.	Copies of NEL Milling Machine		4x5 & Large	
	62-0013		BTC Targets	J. Taylor		
	62-0014		180° Lens	A. Boileau		
	62-0015	Misc.	NIKON Zoom Lens Kit			
	62-0016-1		Chart: Lamp Distance (Attenuation Lengths) vs Lamp Distance Irradiance (relative units)	S. Duntley	4x5	
	-2		Chart: Apparent Radiance (relative units) vs Degrees	S. Duntley	4x5	
	-3		Chart: Volume Scattering Function vs Scattering Angle; East China Sea	S. Duntley	4x5	
	-4		Chart: Volume Scattering Function vs Scattering Angle; Lake-Atlantic- Pure	S. Duntley	4x5	
	62-0016 = LIGHT IN THE SEA REPORT					

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	1962	DESCRIPTION	REQUESTER	SIZE	
						NEGATIVE	SLIDE
	62-0016-5				S. Duntley		
	-6			Chart: Lamp Distance vs Irradiance; Beam Spread	S. Duntley	4x5	
	-7			Chart: Target Distance vs Apparent Contrast	S. Duntley	4x5	
	-8			Chart: Ratio of Monopath Irradiance to Multipath Irradiance vs Lamp Distance	S. Duntley	4x5	
	-9			Chart: Attenuation Function for Scalar Irradiance	S. Duntley	4x5	
	-10			Chart: Irradiance Meter. Irradiance vs Degrees	S. Duntley	4x5	
	-11			Charts: 1. Scalar Irradiance vs Depth 2. Apparent Contrast vs Depth 3. Apparent Contrast vs Target Distance	S. Duntley	4x5	
	-12			Apparent Radiance vs Degrees	S. Duntley	4x5	
	-13			Drawing: Lamp - Water - Air - Glass Window - Phototube	S. Duntley	4x5	
	-14	D. I.		Diamond Island Tower (not used)	S. Duntley	4x5	
	-15	D. I.		Model of Diamond Island Tower	S. Duntley	4x5	1
	62-0017-6	Misc.		O-Ring Grove Cutter. for Machine Shop		4x5	2
	62-0018			Schematic of Tube. Also charts from 61-0041,; 61-0042;	J. Harris		
				62-0003 <u>CONFIDENTIAL</u>			
	62-0019			VTC	J. Harris		6
	62-0020			<u>CONFIDENTIAL</u>	J. Harris		16
	62-0021			Tank Model Composite; some neg.'s are <u>CONFIDENTIAL</u> for Symposium	J. Gordon	4x5	31
	62-0022-1			for Conference April 1962 Flight 123; Jan 23, 1959; San Diego Altitude in Thousands of Feet vs Attenuation Length	A. Boileau	4x5	1
	-2			Path Function	A. Boileau	4x5	1
	-3			Equilibrium Luminance	A. Boileau	4x5	1

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	1962 DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	62-0022-4		Chart: Limiting L(Z) Profile with Rayleigh Scattering.	A. Boileau	4x5	/
	-5		Chart: Equilibrium Luminance (Flight 107)	A. Boileau	4x5	/
	-6		Chart: Path Function (Flight 107)	A. Boileau	4x5	/
	-7		Chart: Zenith Luminance (Flight 107)	A. Boileau	4x5	/
	-8		Chart: Equilibrium Luminance (Flight 121) Imperial Valley	A. Boileau	4x5	/
	-9		Chart: Zenith Sky Luminance (Flight 121) Imperial Valley	A. Boileau	4x5	/
	-10		Chart: Path Function (Flight 121) Imperial Valley	A. Boileau	4x5	/
	-11		Chart: Attenuation Length (Imperial Valley)	A. Boileau	4x5	/
	-12		Chart: Beam Transmittance vs Path Luminance	A. Boileau	4x5	/
	-13		Chart: Experimental Data; Data from five selected flights are presented in Table I.	A. Boileau	4x5	/
	-14		Mathematical Formula	A. Boileau	4x5	/
		<u>NOTE:</u>	62-0022 contains the information presented at Conference on April, 1962.			
	62-0023-1		Chart: General Distribution of Sighting. Appendix A	H. Richardson	4x5	/
	-2		Chart: Meteorological Visibility. Appendix B	H. Richardson	4x5	/
	-3		Chart: Altitude. Appendix C	H. Richardson	4x5	/
	-4		Chart: Ship Size	H. Richardson	4x5	/
	-5		Chart: Ship Length as a Function of Tonnage. Appendix D-3.	H. Richardson	4x5	/
	-6		Chart: Appendix F.	H. Richardson	4x5	/
	-7		Chart: Relative Bearing of the Target. Appendix H	H. Richardson	4x5	/
	-8		Chart: Sun Altitude. Appendix I	H. Richardson	4x5	/
	-9		Chart: Relative Bearing of Sun with Respect to Target. Appendix J.	H. Richardson	4x5	/

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	1962 DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	66-0023-10		Chart: Threshold Miles, Station. Appendix R.	H. Richardson	4x5	/
	-11		Chart: Meteorological Visibility (miles)	H. Richardson	4x5	/
	-12		Chart: Flow of Probit Calculation. (1 to 6)	H. Richardson	4x5	/
	-13		Chart: Flow of Probit Calculation. (7 to 12)			/
		<u>NOTE:</u>	62-0023 contains information presented at Conference, April, 1962.			
	62-0024		Chart: Air - Sea Rescue Study. for Conference April, 1962.	J. Taylor	4x5	/
	62-0025		Charts: 62-4 Report. <u>CONFIDENTIAL</u> . Ozalid	J. Harris		
	62-0026-1		Chart: Threshold Contrast vs Eccentricity (Degrees from Fixational Center). Target Subtense.		4x5	
	-2		Chart: Threshold Contrast (Y-N, P = .50) vs Eccentricity (Degrees from Fixational Center.)		4x5	
	also		62-0024; 62-0022; 62-0021; 61-0025; 60-0036; 59-0037; 59-0022; 59-0013; 56-0054; 56-0048; 55-00225. All were used for Symposium April 17 to 19, 1962.	B. McGlamery		
	62-0027		Chart: for talk at L. A. May 4.	J. Harris		/
	62-0028-1		A.S.R. Search Lite.	J. Gordon	4x5	
	-2		4 Helmets	J. Gordon	4x5	
	-3		4 Helmets.	J. Gordon	4x5	
	-4		The Search Lite.	J. Gordon	4x5	
	-5		The Search Lite, man on the structure.	J. Gordon	4x5	
	-6		The Search Lite, picture of the assemblage.	J. Gordon	4x5	
	-7		The Search Lite, man testing.	J. Gordon	4x5	
	-8		Search Lite Project: Harbor Lite.	J. Gordon	4x5	
	-9		" : Man on boat at dock.	J. Gordon	4x5	

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	62-0028-10		Search Lite Project: Man looking thru camera on tripod.	J. Gordon	4x5	
	-11		" : 2 wooden horses holding Search Lite	J. Gordon	4x5	
	62-0029-1	C-130	Spectrophotometer	A. Boileau	4x5	
	-2	C-130	Spectrophotometer, Boileau removing cover.	A. Boileau	4x5	
	-3	C-130	Spectrophotometer	A. Boileau	4x5	
	-4	C-130	Spectrophotometer	A. Boileau	4x5	
	62-0030-1	Dia. Isl.	Aerial View: island.	S. Duntley	4x5	
	-2	Dia. Isl.	island, water, and sky.	S. Duntley	4x5	
	-3	Dia. Isl.	water - island - water - mainland - sky.	S. Duntley	4x5	
	-4	Dia. Isl.	water - island - water - mainland - sky.	S. Duntley	4x5	
	-5	Dia. Isl.	island.	S. Duntley	4x5	
	-6	Dia. Isl.	island.	S. Duntley	4x5	
	-7	Dia. Isl.	water - island - water - land.	S. Duntley	4x5	
	-8	Dia. Isl.	water - island - water - land.	S. Duntley	4x5	
	-9	Dia. Isl.	water - island - water - peninsula.	S. Duntley	4x5	
	-10	Dia. Isl.	island.	S. Duntley	4x5	
	-11	Dia. Isl.	water - island - water - land.	S. Duntley	4x5	
	-12	Dia. Isl.	island.	S. Duntley	4x5	
	-13	Dia. Isl.	water - island - water - land.	S. Duntley	4x5	
	-14	Dia. Isl.	water - island - water - mainland ranges.	S. Duntley	4x5	
	-14	Dia. Isl.	water - island - water - mainland.	S. Duntley	4x5	
	62-0031		Chart: Altitude of Sun (degrees)	J. Gordon S. Duntley	4x5	2
	62-0032		Mr. Tyler drawing an aquarium.	J. Tyler		1
	62-0033-1		Chart: Fig. 1. Spectral sensitivity curves of Kodak Super-XX Aerographic (dashed curve) and Plus-X Aerecon films. Plus-X Aerecon has "extended red sensitivity.)	J. Gordon	4x5	

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	62-0033-2		Charts: Solar Spectra-Energy Distribution Curves as Compared with Distribution of Black Bodies of Like Color Relative Energy.	J. Gordon	4x5	
	-3		Chart: Spectral Irradiation (Arbitrary Units) Spectral Irradiation from the Sun.	J. Gordon	4x5	
	62-0034	NOTS	Van	J. Gordon	35 mm	
	62-0035-1	NOTS	Tank, front-left side view. June 22, 1962	J. Gordon	4x5	
	-2	NOTS	" . left side view.	J. Gordon	4x5	
	-3	NOTS	" "	J. Gordon	4x5	
	-4	NOTS	" front-right view.	J. Gordon	4x5	
	-5	NOTS	" right side view.	J. Gordon	4x5	
	-6	NOTS	" back-right side view.	J. Gordon	4x5	
	-7	NOTS	" back view.	J. Gordon	4x5	
	-8	NOTS	" front view.	J. Gordon	4x5	
	62-0036-1		Small pictures of Sky from underwater.	J. Tyler	4x5	5
	-2		Beams of light for rough surfaces.	J. Tyler		
	-3		Beams of light for calm surfaces.	J. Tyler		
	-4		Sun noise chart.	J. Tyler		
	62-0037	Dia. Isl.	Equipment to be shipped to Diamond Island.	S. Duntley		
	62-0038	Spectri	Spectral Sensitivity of 50-121 Film.			
	62-0039		Dr. Taylor - Tank for Mexico Trip. <u>NO NEGATIVE</u>			
	62-0040		Chart: Relative Spectral Sensitivity Normalized Cathode Spectral Sensitivities of 15 931A Type RCA Phototubes.	A. Boileau	4x5	
	62-0041	HUGO	Rectangles of varying size.	J. Harris	4x5	
	62-0042		Scattering Meter: special equipment.	J. Tyler		

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	62-0043-1	C-130	Airborne Turbidity Meter.	A. Boileau	4x5	
	-2	C-130	"	A. Boileau	4x5	
	-3	C-130	"	A. Boileau	4x5	
	-4	C-130	"	A. Boileau	4x5	
	-5	C-130	"	A. Boileau	4x5	
	62-0044-1 to 6		Fog Equipment.	R. Austin	4x5	
	62-0045		Bugs -- Mrs. Tricoles. <u>NEGATIVE DISCARDED</u>			
	62-0046-1	NOTS	China Lake Field Trip. Field Facility.	J. Gordon	4x5	1
	-2	NOTS	Field Facility.	J. Gordon	4x5	
	-3	NOTS	Man observing recorded data. Recording equipment.	J. Gordon	4x5	
	-4	NOTS	Picture of airplane, ^{flying over test roadway.} about 1/2 mile from test roadway.	J. Gordon	4x5	
	-5	NOTS	Man recording or reading data. Recording equipment.	J. Gordon	4x5	
	-6	NOTS	Camera Gonio Photometer	J. Gordon	4x5	
	-7	NOTS	Gonio Photometer	J. Gordon	4x5	
	-8	NOTS	A 4-D Sky Raider with Camera Pod.	J. Gordon	4x5	
	-9	NOTS	Close-up of Camera Pod.	J. Gordon	4x5	
	-10	NOTS	Roadway	J. Gordon	4x5	
	-11	NOTS	Camera Gonio	J. Gordon	4x5	
	62-0047	D. I.	D. I. underwater. Duntley and Tyler. Tyler has film	J. Tyler	35 mm	
	62-0048	RADI	10 line grey scale. <u>NO NEGATIVE</u>	J. Harris		
	62-0049		Square Law Filter Scope Square Wedge Neg.	B. McGlamery	35 mm-kept with 4x5	
	62-0050		see 63-0022 (Equipment for J. Tyler)	J. Tyler		
	62-0051-1	503 ?	Chart: Mean Relative Threshold Contrast vs Day of Week.	J. Taylor	4x5	
	-2	503 ?	Chart: Mean Relative Threshold Contrast vs Session No.	J. Taylor	4x5	
	-3	503 ?	Drawing: Control Room - Observing Room - Cube - Target Projector.	J. Taylor	4x5	

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	62-0052		Plus-X Curve: Wavelength vs Log Sensitivity	S. Duntley	4x5	
	62-0053	503	Ship - CONFIDENTIAL - for Washington	J. Harris		
	62-0054-1		Polargraphs: Foot Lamberts, Sky Luminance - 11,000 Feet June 21, 1958, Central Minnesota	A. Boileau	4x5	1
	-2		Polargraph: 2000 Feet, Central Minnesota.	A. Boileau	4x5	1
	-3		" 20,000 Feet, "	A. Boileau	4x5	1
	-4		Wavelength: Westinghouse, No. WX4582 S-11 Surface; RCA 1P21 S-4 Surface	A. Boileau	4x5	1
	-5		Polargraph: Sky Radiance, 2000 Feet; Central Minnesota	A. Boileau	4x5	1
	-6		" 11,000 Feet "	A. Boileau	4x5	1
	-7		" 20,000 Feet "	A. Boileau	4x5	1
	62-0055-1		Drawing: Arrangement of the mother boat and the Kuroshio	J. Tyler	Large	
	-2		Photos: 1-Creeping fish 2-Surfacing KUROSHIO	J. Tyler	Large	
	-3		Drawing: 1-Schematic diagram of the KUROSHIO 2-Middle Part section; Bow part section	J. Tyler	Large	
	-4		Photos: 1-Side view of the KUROSHIO 2-Inside view of the KUROSHIO (the bows) 3-Cable reel and controlling panel.	J. Tyler	Large	
	62-0056		Chart	R. Ensminger	Large	
	62-0057	C-130	Equipment: H Meter	A. Boileau	4x5	3
	62-0058		Vision Chart	J. Taylor		
	62-0059	503	Ships - CONFIDENTIAL	J. Harris		
	62-0060		Chart for Report. Fig. 6, 7, 8, 9. Peripheral Contrast Thresholds.	J. Taylor	Large	
	62-0061	503	Targets. (S) Series; Washington. Some CONFIDENTIAL	J. Harris	4x5 & Large	

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	63-0001-1	C-130	E Meter (2)	A. Boileau	4x5	
	-2,3	C-130	Path Luminance Meter	A. Boileau	4x5	
	-4,5	C-130	M. R. Meter	A. Boileau	4x5	
	-6,7	C-130	Sky Scanner	A. Boileau	4x5	
	-8,9	C-130	Trailer, Exterior	A. Boileau	4x5	
	63-0002		Air and Water -- Fishnet Visibility	J. Taylor	4x5	
	63-0003		Transmissometer, for report	S. Duntley	4x5	9
	63-0004		--No Negative -- Targets for JHT	J. Taylor		1
	63-0005-1		Chart: East. Standard Time, (+) Beam Transmittance, (0) Path Radiance Watts	S. Duntley	4x5	9
	-2		Sky Scanner	S. Duntley	4x5	
	-3		Chart: Equivalent Equilibrium Reflectance, Beam Transmittance; 22 Aug 62 - 12 Sept 62	S. Duntley	4x5	
	-5		Chart: Path Luminance (Foot Lamberts), Beam Transmittance.	S. Duntley	4x5	
	-4		Chart: Path Radiance, Beam Transmittance, 22 Aug 62 - 12 Sept 62	S. Duntley	4x5	
	63-0006	503	Chart: Serious Resolution	J. Harris	Large	
	63-0007		Chart: Relative Threshold Contrast	J. Taylor	Large	
	63-0008	Misc.	I. D. Photo for Passport: J. Tyler		4x5	
	63-0009	Misc.	I. D. Photo for Passport: J. Taylor		4x5	
	63-0010	RADI	"ARPA" Distorted Illustration	J. Harris	4x5 & Large	1
	63-0011	RADI	One-Dimensional Turbulence Distortions and Restorations. Drawing	"	4x5 & Large	1
	63-0012	RADI	One-Dimensional Mathematical Distortions and Restorations.	"	4x5 & Large	1

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	63-0013	RADI	A Typical Spatial Frequency	J. Harris	4x5	1
	63-0014	RADI	Line-up Grid for Simulator	J. Harris	4x5	
	63-0015	C-130	P. M. Power Supply	A. Boileau	4x5	
	63-0016-1 to 5		Color Teletype Discrimination System	R. Ensminger	4x5	
	63-0017		Chart: Illustrating the Terms: Target, Background, and Surround.	SQD & JHT	4x5	1
	63-0018-1 to 12		Fog	R. Austin	4x5	
	63-0019		Old Quadratic Content Meter	J. Harris	4x5	1
	63-0020	C-130	Aerial Photo of San Diego	A. Boileau	Large	
	63-0021	C-130	Probe Pressure Balance Meter		4x5	
	63-0022-1 to 7		Underwater Nephelometer <i>Special 20</i>	J. Tyler		
	63-0023	C-130	Photometer Temperature	A. Boileau	Large	
	63-0024-1 ^g to 8	NOTS	Tank and Van Shadow Targets	J. Taylor	4x5 & Large	
	63-0025	C-130	Photomultiplier Temperature Control	A. Boileau	Large	3
	63-0026		<i>Special no. 21</i>	J. Tyler		
	63-0027		Targets	J. Taylor	Large	
	63-0028	NOTS	"	R. Ensminger	Large	
	63-0029	Co	Gonio Model Photo		Large	
	63-0030		Charts (22)	J. Tyler		2
	63-0031		Washington, D. C. Prints: 63-0031-1, 63-0019, 63-0005, 62-0027, 61-0013, 60-0036, 55-00324, 61-0036, 61-0068, 60-0045, 60-0028, 63-0031.	J. Harris		150+8
	63-0032-1 to 10	NBT		B. Ruff	4x5	
	63-0033-1-2	RADI	Distorted ARPA and Recovery. Math Distortion and Actual Distortion on Scanner.	J. Harris		1
	63-0034-1	RADI	RADI Scanner: Side View	"	4x5 & Large	

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	63-0034-2	RADI	RADI Scanner: Over-all Electronics.	J. Harris	4x5	
	-3	RADI	RADI-Scanner: Close-up Head Mechanism.	"	4x5	
	63-0035	RADI	Chart: Noise Level Before and After Restoration.	"		
	63-0036		Operation Analysis of Satellite Recon; chart			
	63-0037		Optics-ELECTRONICS		4x5	1
	63-0038		Target, .042 Diameter			
	63-0039		57-0037; missile also neg.; of trailer from colored slide there are two large negatives and 61-0068, 58-0024, 63-0019, 61-0013, 59-0002, 63-0022, 63-0033, 61-0013, 59-0027, 60-0036, 61-0031, 57-0036, 57-0052	S. Duntley		
	63-0040		Title on slide: Visibility Laboratory, Univ. of Calif., San Diego, Calif.		Large	
	63-0041		Title Block on Engineer Drawing.		Large	
	63-0042	C-130	Photometer Power Supply	A. Boileau	Large	
<i>Filed in 910 # 67 (1969 photo)</i>	63-0043		Charts: Shimmer Meter Chassis <i>(Filed in 510 Ref. 68-15 Folder Job # 67 (1968))</i>	S. Duntley	Large	
	63-0044		Drawing of Discovery Satellite.	R. Ensminger		
	63-0045		Quadratic Content Meter	B. McGlamery		
	63-0045-1 - 3		Trailer showing sun shade.		4x5	
	63-0046		Quadratic Content Meter	B. McGlamery	4x5	
	63-0047		Quadratic Wave Form.	B. McGlamery	Large	
	63-0048		Charts for Article	J. Harris		
	-1		Raleigh Resolution Function	"	Large	
	-2		Flux Density vs Image Plane Distance; -1.0 + 1.0 1 bar	"	Large	
	-3		Spectrum Amplitude vs Spatial Frequency	"	Large	
	-4		Image Plane Distance vs Flux Density; -1.0 + 1.0 2 bar	"	Large	
	-5		Spectrum Amplitude vs Spatial Frequency, cutoff Frequency	"	Large	

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	63-0048-6		Image Plane Distance vs Flux Density; -20 +20	J. Harris	Large	
	-7		Image Plane Distance vs Flux Density; -1.0 -1.0	J. Harris	Large	
	-8		Chart: H Factor	J. Harris	4x5	
	63-0049-1		Title: Carrier Detection Probability		4x5	
			Contrast Transmittance = .05			
	-2		Title: Carrier Detection Probability		4x5	
			Contrast Transmittance = .1			
	63-0050	Pahrump	Field Test Trip. Aug. 15, 1963		Large	2
	63-0051		Chart: Depth vs Light Density	S. Duntley	4x5	
	63-0052-1 - 2		Rooftop Scanner: High-Speed Camera Checkout.		4x5	
	63-0053		Charts -- retake from <u>Light in the Sea</u> report.	S. Duntley	4x5	
	-1		Apparent Radiance Watts; Log Exposure	"	"	
	-2		Watts/Square Meter, Millicron Depth-Meters	"	"	
			Watts Cubic meter.			
	-3		Zenith Angle (Degrees) Depth(Meters)	"	"	
	-4		Zenith Angles (Degrees) Apparent Radiance (Relative Units)	"	"	
	-5		Zenith Angle (Degrees) 180 Apparent Radiance (Relative Units.)	"	"	
	-6		Depth (attenuation length) Depth Meters	"	"	
			Apparent Radiance (Relative Units)			
	63-0054		Charts	S. Duntley	4x5	
	-1		<u>Light in the Sea</u> Report: Graph-Irradiance vs Lamp Dist.	S. Duntley	4x5	1
	-2		Irradiance vs Lamp Distance plus Beam Spread (1.2 millir.	"	"	1
	-3		I " " "	"	"	1
			4 II			

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	63-0055	503	Charts for Report	B. McGlamery		
	63-0056	503	Roof Top Scanner			
	63-0057		Fog Report ✓	R. Austin		
	63-0058		Azimuth Indicator		Large	
	63-0059	VTC	for report	J. Harris		
	63-0060-1-16	C-130	Hingham Mass <i>See "EXTRA INSERT"</i>	A. Boileau	4x5	9
	63-0061		Charts	A. Boileau	4x5	4 Total
	-1		Altitude Thousand of Feet; Foot Lamberts Naut Mile; Flight 109; May 6, 1957; Patrick Air Base.	"		1
	-2		Altitude Thousand of Feet; Radiant Path Function; Flight 123; Jan. 23, 1959; Pacific Ocean near San Diego	"		1
	-3		Altitude Thousand of Feet; Microwave Refractive Modulus; Flight 123; Jan. 23, 1959; Pacific Ocean near San Diego	"		1
	63-0062		Charts	J. Gordon		
	63-0063		Optics Null Balance Transmissometer (NBT) (<i>See neg. 65-0129</i>)			
	63-0064		Diagram of Vertical Section of Teleost Eye.	J. Taylor		1
	63-0065			S. Duntley		
	63-0066		Target Optical System	R. Howarth		
	63-0067	C-130	Report	A. Boileau	Large	
	63-0068-1		Chart Spacelight Spectrometer. Fig. 1	J. Tyler	4x5	1
	-2		Spacelight Spectrometer.	J. Tyler	Large	1
	-3		Chart: Wavelength in Millimicrons vs % Transmittance	J. Tyler	Large	1
	-4		Chart: Wavelength vs Output-Input Ratio	J. Tyler	Large	1
	-5		Chart: Wavelength vs Output-Input Ratio (Relative)	J. Tyler	Large	1
	63-0069	503	Charts for report	R. Ensminger		

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	1964 DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	64-0001		Log-Log Graph; 4 Log x $\frac{1}{2}$ Log	A. Boileau	Large	
	64-0002		for the Optics Magazine	Duntley	4x5	
	64-0003		Special Equipment	McGlamery	4x5	
	64-0004-1	503	Presentation; Global Surveillance	J. Harris	4x5	
	-2	503	Drawing; Comparison of Real and Simulated Space Surveillance.	J. Harris	4x5	
	-3	503	Sky Simulator, Exterior View	J. Harris	4x5	
	-4	503	Sky Simulator, Interior View	J. Harris	4x5	
	-5	503	Photo, Ship Model in Sky Simulator	J. Harris	35mm	
	-6	503	Over-View of 503 TV System and Electronics. Photo	J. Harris	4x5	1
	-7	503	Modified 35 mm Rear Screen Projection for 503. Photo	J. Harris	4x5	1
	-8	503	Four Psychophysics Observers in Position Showing Response Buttons. Photo. Vision Cube	J. Harris	4x5	1
	-9	503	Automatic Recording Equipment, Vision Research Facility. Vision Cube. Photo	J. Harris	4x5	1
	-10	503	Automated Rear Projection System. Vision Cube. Drawing	J. Harris	4x5	1
	-11	503	Detection vs False Alarms, Photometer vs Human Observer	J. Harris	4x5	
	-12	503	Quadratic Content Meter	J. Harris	4x5	
	-13	503	CVA-DLG-DDE Wake Study Typical Spatial Frequency	J. Harris	4x5	1
	-14	503	CVA-34 vs CVA-61 Wave Study, Sea State Comparison	J. Harris	4x5	
	-15	503	CVA-34 vs CVA-61 Black Water Wake Study	J. Harris	4x5	
	-16	503	Global Coverage in 24 Hours	J. Harris	4x5	
	-17	503		J. Harris		
	-18	503	S/N vs Wake Area	J. Harris	4x5	
	-19	503	Detection Probability vs S/N	J. Harris	4x5	
	-20	503	S/N vs Sea Reflectance	J. Harris	4x5	

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	1964	DESCRIPTION	REQUESTER	SIZE	
						NEGATIVE	SLIDE
	64-0004-21	503			J. Harris	4x5	
	-22	503		Contrast Transmittance for Five B-20 Flights. Graph	J. Harris	4x5	1
	-23	503		Roof-Top of Building 348. Drawing	J. Harris	4x5	1
	-24	503		Electronics for Roof-Top Data Collection. Drawing	J. Harris	4x5	1
	-25	503		Roof-Top Sky Scanner, Covers Removed. Photo	J. Harris	4x5	1
	-26	503		Roof-Top Sun Photometer. Photo	J. Harris	4x5	1
	-27	503			J. Harris	4x5	
	-28	503			J. Harris	4x5	
	-29	503			J. Harris		
	-30	503			J. Harris		
	-31	503			J. Harris		
	-32	503			J. Harris		
	-33	503			J. Harris		
	-34	503			J. Harris		
	-35	503		Televised Vessel	J. Harris	4x5	
	-36	503		Redundant and Non-Redundant Scanning from Space. Drawing	J. Harris	4x5	1
	-37	503		Artist's Concept of Space Surveillance System. Drawing	J. Harris	4x5	1
	64-0005-1			Rate of Photosynthesis vs Detector Response. Chart	J. Tyler	Large	1
	-2			Output/Input Ratio vs Wavelength. Nov. 9, 13, 18, Dec. 2	J. Tyler	Large	1
	-3			Pacific Coastal Water. Chart	J. Tyler	Large	1
	-4			Table 1: Equal and Cosine Collection.	J. Tyler	Large	1
	64-0006	503		Roof Top Azimuth Indicator and Elevator. <i>Graph</i>	J. Gordon	Large	
	64-0007	NOTS		Van Targets NOTS Reports. Shows Effect of not Being Properly Oriented with Sun.		35 mm	
	64-0008			Polarizing Effect in Sky Simulator.		35 mm	
	64-0009			Roof Top Sky Camera. Elevation Angle Calibration.		35 mm	

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	64-0010	503	Ocean off Point Loma. Resnick has neg.	I. Resnick		
	64-0011		Examples: Distance; Spatial Frequency vs. Amplitude	J. Harris	Large	
	64-0012		Swimmer Nomographs (for Applied Optics article)	J. Gordon	Large	
	64-0013	Misc.	Example for Graphs for Guide I, Photo Lab			
	64-0014-1	VTC	Angular Subtense (Minutes of Arc) vs. Index Numbers	J. Harris	Large & 4x5	
	-2	VTC	for Applied Optics Article			
	-2	VTC	Threshold Contrast	J. Harris	4x5 & Large	
	-3	VTC	Graph for Composite for Article	J. Harris	4x5 & Large	
	-4	VTC				
	-5	VTC	E Meter	J. Harris	4x5 & Large	
	-6	VTC	Y Meter	J. Harris	4x5 & Large	
	-7	VTC	Gomo Photometer, 2 Barrel	J. Harris	4x5 & Large	
						-15 /
	-31to 36	VTC	Photographs for Applied Optics Cover	J. Harris	4x5 & Large	
	64-0015-1	VTC	Radar Van Classification: 280 Conditions of Observation	J. Harris	4x5	/
	-2	VTC	Radar Van Classification: Comparison of VTC to Vision	J. Harris	4x5	/
			Experiment (cost and time)			
	64-0016		Light Meter for Tuna Commission Research Grant "Sid"	J. Taylor	4x5	
	64-0017	Misc.	3 Box Exposure Trial (35 mm)	J. Harris	35 mm	
	64-0018	Pahrump	Grey Scale Camer; copy of paste-up showing Grey Scale insert.			
	64-0019		Solar Transmissometer (copy paste-up) 2 views.			2
	64-0020	Gemini				2
	64-0021	VTC	Chart	R. Howarth		
	64-0022	RADI	Test Target	B. McGlamery		

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	64-0023	503	Decal for Chassis Relay Line Compensator	R. Howarth	Large	
	64-0024-1	Gemini	In*Flight Photometer. Photo	J. Taylor	4x5	1
	-2	Gemini	In-Flight Vision Tester	J. Taylor	4x5	1
	64-0025	Facilities	Laboratory Location Map; 4-27-64 <i>Neg. of Bldgs.</i>		Large	
	64-0026		Polar Plots	J. Gordon	Large	
	64-0027		Star Plane Restoration	J. Harris	Large	
	64-0028	Gemini	NASA Gemini Proposal	J. Taylor	Large	
	64-0029		Searchlight revision; report for Applied Optics		Large	
	64-0030	RADI	Figure "4", Scrap Neg.	J. Harris	4x5	
	64-0031-1		Atmospheric Haze: Scattering Observed with Searchlight. ^{Fig. 4}	J. Tyler	4x5	
	-2		Atmospheric Haze: Scattering by Atmosphere, Searchlight	J. TYLER	4x5	
			Data. Graph, Fig. 5			
	64-0032	Facilities	Door of Building 339		4x5	
	64-0033	Misc.	I. D. Photograph: Mr. Torkelson		4x5	
	64-0034	C-130	Airplane: rough art work	A. Boileau	4x5	
	64-0035 -1, 2	C-130	Tape Console	A. Boileau	4x5	
	64-0036		Tank Model Showing Sun's Overcast.		4x5	
	64-0037	RADI	RADI Van Model at Various Sun Angles		4x5	
	64-0038	503	White Cap Photograph		4x5	
	64-0039 -1, 2	RADI	Control Console for RADI Film Scanner		4x5	
	64-0040	^{NASA} Gemini	4:1 Rectangle Target, Gemini Psychological	<i>J. Taylor</i>	4x5	
	64-0041	^{NASA} Gemini	Gemini Head Dimension; full face and profile	J. Taylor	4x5	
	64-0042		Mock-up for NBT; copies		4x5	
	64-0043	Facilities	Nikon Camera Instruction Book		4x5	
	64-0044		Slides for Air Force Meeting.	J. Gordon	4x5	12
	64-0045		Effective Equilibrium Luminance for Paths of Site	J. Gordon	4x5	
			Inclined Upward and Downward.			

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	64-0046		Shot of Model Trailer on Roof	J. Gordon	4x5	
	64-0047	NOTS	Ground Station at NOTS		4x5	
	64-0048	"	Camera Pod at NOTS, attached to airplane <i>Fig. 9 of Report 63-23</i>		4x5	
	64-0049	"	NOTS Charlie Range 4000'			
	64-0050 (1-34)	Pahrump	Pahrump Installation Handbook		4x5 & 35mm Large	
	-1	"	Solar Transmissometer			
	-2	"	Target Camera			
	-3	"	Grey Scale Neg. of Target			
	-4	"	Pahrump 360° View.			
	-5	"	Solar Transmissometer, Close-up of Aiming Device.			
	-6	"	Side View of Trailer.			
	-7	"	Installation of Trailer.			
	-8	"	Trailer, Exterior End View.			
	-9	"	Trailer, Sky Camera, and Solar Transmissometer.			
	-10	"	Sky Scanner			
	-11	"	Sandstorm and Tumbleweed.			
	-12	"	Wide Angle View of Target. Photo			
	-13	"	Solar Transmissometer.			
	-14	"	Solar Transmissometer.			
	-15	"	Checking the Power Installation at Pahrump.			
	-16	"	Overall View of Pahrump Site.			
	-17	"	Sky Scanner Pointing Down.			
	-18	"	Sky Camera Closeup.			
	-19	"	Target Camera and Sky Scanner.			
	-20	"	Installation Picture.			
	-21 - 24	"	Sandstorm			

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	64-0050-25	Pahrump	Solar Transmissometer.			
	-26	"	All Sky Camera.			
	-27	"	Solar Transmissometer			
	-28	"	Solar Transmissometer			
	-29	"	Data Corp. Equip.			
	-30	"	Sky Scanner, Pointing up.			
	-31	"	"E" Meter, pointing down.			
	-32	"	Sky Scanner.			
	-33	"	Sky Scanner, side view.			
	-34	"	Calibration of Equipment at Pahrump: E Meter, Sky Scanner, Up-Down Ratio Meter. 2 neg's and 2 views.			
	64-0051	Gemini	Eye (E)	J. Taylor	Large	
	64-0052	503	Roof; May 15, 1964			
	64-0053	RADI	CONFIDENTIAL	J. Harris		6
	64-0054	Gemini		J. Taylor		9
	64-0055		changed to 64-0076			
	64-0056	RADI	Computer Study of Numeral "4" for Various Spatial Frequency Cut-Offs. Photo. Report Fig. 4	B. McGlamery	Large	1
	64-0057	RADI	RADI Targets: Diamonds, "S", "5"	J. Harris	Large	
	64-0058 -163		Teletype Tape Discriminator; 64-0067 also here	R. Ensminger	4x5 Large	
	64-0059		negative discarded			
	64-0060	NASA Gemini	Photometer	J. Taylor	4x5	
	64-0061-1	NASA Gemini	In*Flight Vision Tester	"	4x5+Large	2
	-2	NASA Gemini	In-Flight Photometer	"		2
	64-0062	503	Ship Chart:		Large	
	64-0063		Geometry of the System; Lasers applied to ASN	J. Harris		

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	64-0064	D. I.	Laser Lamp Chart; Diamond Island	S. Duntley	Large	4
	64-0065	RADI	Target			
	64-0066-1	510/64-12	Teletype Tape Discriminator	R. Ensminger	4x5	
	64-0067-2	"			4x5	
	-3	"			4x5	
	-4	"			4x5	
	64-0067		Schematic	B. McGlamery		
	64-0068		Chart: Temp. and Hydrological Range vs. Depth		4x5	1
	64-0069		Underwater Camera	J. Taylor	4x5	
	64-0070		Photometer Power Supply, Model 3, front panel		Large	
	64-0071	NASA Gemini	Chart: Visual Performance Modes	J. Taylor	4x5	
	64-0072	NASA Gemini	Environmental Factors; Chart	"	4x5	
	64-0073	NASA Gemini	Chart: Visual Tasks in Space	"	4x5	
	64-0074 (1-23)	NBT	NBT: Interior and Exterior Views, Power Supply		4x5	
	64-0075 -1-24	C-130	Exterior View of Airplane		4x5	
	64-0076-1	NASA Gemini	Vision Tester Drawing: Shows astronaut using instrument	J. Taylor	4x5	
	-2	"	Vision Tester Drawing	"		
	-3	"	Photometer inside capsule; drawing	"		
	-4	"	Orientation of Gemini Capsule over Ground Targets.	"		
	-5	"	Photometer: Photo of Various Parts.	"		
	-6	"	Vision Tester; Photo, paste-up of 2 views.	"		
	64-0077		180° Lens, underwater camera case		4x5	
	64-0078		Sky Simulator: Interior view showing 45° mirror for TV Camera.		4x5	
	64-0079		Sky Simulator: TV Camera in Position.		4x5	
	64-0080		Sky Simulator: Sun Projector		4x5	

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	64-0081		Sky Simulator: Sun Projector		4x5	
	64-0082	Misc.	Roger Revelle: Going Away Party		4x5	
	64-0092	C-130	Aircraft: Top view, line drawing		4x5	
	64-0093-1		Sun Transmissometer, with Brown recorder.		4x5	
	-2-10 ^{thru}		Sun Transmissometer		4x5	
	-11				4x5	
	-12				4x5	
	-13				4x5	
	-14		Lamp Controller		4x5	
	-15				4x5	
	-16,17		Sun Transmissometer		4x5	
	-18				4x5	
	-19				4x5	
	-20		Laredo, Texas Instrument: Sun Transmissometer		4x5	
	-21				4x5	
	-22		Sun Transmissometer		4x5	
	64-0094-1	NASA Gemini	Gemini Window Flare Experiment.	J. Taylor	4x5	
	-2 - 8	NASA Gemini	Window Flare Experiment: Photometer measuring window reflectance at various angles.	"	4x5	
	-8, 9	NASA Gemini	Window Flare Experiment: Instruments	"	4x5	
	-10, 11	NASA Gemini	Window Flare Experiment; Paper Gemini Capsule	"	4x5	
	64-0095-1 - 5	NASA Gemini	Vision Tester Electronics. 5 views	"	4x5	
	64-0096-1 - 4		Insita Spectroscopy in Ocean and Lake Waters; 4 line neg.s	J. Tyler	4x5 & Large	
	64-0097-1,2	Dia. Isl.	Pier and Tower 1964 JET Experiment.		4x5	
	64-0098	Misc.	VisLab Personnel		35 mm	
	64-0099-1	C-130	Exterior side view of front of aircraft. Fr. 19-24		35mm	

NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	1964	DESCRIPTION	REQUESTER	SIZE	
						NEGATIVE	SLIDE
	64-0099-2	C-130		Exterior view of aircraft with man at work on plane. Fr. 25-30		35 mm	
	-3	C-130		Exterior view of aircraft, man at work on plane. Fr. 31-34		35 mm	