

NEGATIVES 1955

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	55-00001		Sea State Meter (1952) Angle View shows Recording Drawer		5x7	
	55-00002		Sea State Meter (1952) Control Panel Close-up Azimuth Dial		5x7	
	55-00003		Sea State Meter (1952) Rear of Control Panel		5x7	
	55-00004		Sea State Meter (1952) Front of Control Panel		5x7	
	55-00005		Sea State Meter (1951) Electrode Frame & Control Panel-Drawer Open		4x5	
	55-00006		Sea State Meter (1951) Electrode Frame & Control Panel		4x5	
	55-00007		Sea State Meter (1951) Electrode Construction		4x5	
	55-00008		Sea State Meter (1951) In Operation from Tower at D.I.		4x5	
	55-00009		Sea State Meter (1951) In Operation from Tower at D.I.		4x5	
	55-00010		Sea State Meter (1951) Two Anemometers in Use		4x5	
	55-00011		Sea State Meter Control Panel		4x5	
	55-00012		Sea State Meter - Top Connections of Electrodes		4x5	
	55-00013	D.I	Electrodes - N.A. Finkelstein at Diamond Island		4x5	
	55-00014		Underwater Photometer - Head Only		4x5	
	55-00015		Underwater Photometer (1951) Control Panel & Recorder		4x5	
	55-00016		Underwater Photometer (1951) (Copy) Index to give azimuth		3 $\frac{1}{4}$ x4 $\frac{1}{4}$	
	55-00017		Underwater Photometer (1951) (Copy) In S.D. Harbor		3 $\frac{1}{4}$ x4 $\frac{1}{4}$	
	55-00018		Underwater Photometer (1951) (Copy) Shows Unit on Raft in San Diego Harbor		3 $\frac{1}{4}$ x4 $\frac{1}{4}$	
	55-00019		Underwater Photometer (1951) Underside of raft shows Photometer Mechanism		3 $\frac{1}{4}$ x4 $\frac{1}{4}$	
	55-00020		Underwater Photometer (1951) (Copy) Close-up of Head shows tubes		3 $\frac{1}{4}$ x4 $\frac{1}{4}$	
	55-00021		Underwater Photometer (1951) (Copy) Retouched to remove tubes		3 $\frac{1}{4}$ x4 $\frac{1}{4}$	
	55-00022		Sky State Meter - Globe being painted		4x5	
	55-00023		Sky State Meter - Globe being painted		4x5	
	55-00024		Sky State Meter - Globe removed		4x5	

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DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	55-00025		Sky State Meter - Close-up showing photo cell housing & scale		4x5	
	55-00026		Sky State Meter - Shows globe		4x5	
	55-00027		M.R. II - Optical Arrangement Only		5x7	
	55-00028		M.R. II - Back of Control Panel		5x7	
	55-00029		M.R. II - Control Panel & Recorder		5x7	
	55-00030		M.R. II - Optical Arrangement & Control Panel		5x7	
	55-00031		Photometer Chassis - Template for Top of Chassis		4x5	
	55-00032		Photometer Chassis - Underside View		4x5	13
	55-00033		Photometer Chassis - Side View shows Compensators		4x5	
	55-00034		Photometer Chassis - Underside View		4x5	
	55-00035		Photometer Chassis - Top View, Component Layout		4x5	
	55-00036	D. I	Construction Operations at D.I. - Dredge along shore		4x5	
	55-00037	"	Construction Operations at D.I. - Dredge under tow		4x5	
	55-00038	"	Construction Operations at D.I. - Dredge under tow		4x5	
	55-00039	"	Construction Operations at D.I. - Drilling from Dredge		4x5	
	55-00040	"	Construction Operations at D.I. - Drilling from Dredge		4x5	
	55-00041	"	Construction Operations at D.I. - Top View of Dredge		4x5	
	55-00042	"	Construction Operations at D.I.		4x5	
	55-00043	"	Construction Operations at D.I. - Blasting of Lagoon		4x5	
	55-00044	"	Construction Operations at D.I. - Lagoon		4x5	
	55-00045	"	Tower Construction at D.I. - Upper platform in place		4x5	
	55-00046	"	Tower Construction at D.I. - Upper platform in place		4x5	
	55-00047	"	Tower Construction at D.I. - Upright poles only		4x5	
	55-00048	"	Tower at D.I. in Winter showing Sky State, Sea State & Photometer		4x5	
	55-00049	"	Tower - Shows frame of upper Crow's Nest		4x5	
	55-00050	"	Complete Tower View from Shore		4x5	

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					NEGATIVE	SLIDE
	55-00051	DIA IS.	Complete Tower View from Shore		4x5	
	55-00052	"	Diamond Island Personnel		4x5	
	55-00053	"	Diamond Island Personnel		4x5	
	55-00054	"	Diamond Island Personnel		4x5	
	55-00055	"	Boats at Steel Pier - Ames		4x5	
	55-00056	DIA. IS	Diamond Island Machine Shop		4x5	
	55-00057	DIA. IS	Diamond Island Test Laboratory		4x5	
	55-00058	DIA. IS.	Boats at Wharf - Diamond Island		4x5	
	55-00059	DIA. IS	D.I. from Shore - Shows some of Bldgs.		4x5	
	55-00060	DIA. IS.	Office Bldg. at Diamond Island		4x5	
	55-00061	"	Boat at Steel Pier - Ames		4x5	
	55-00062	"	Lagoon - Looking Down from Tower		4x5	
	55-00063	"	Lagoon - Looking Down from Tower		4x5	
	55-00064	"	Lake and Boats from Speedboat		4x5	
	55-00065	"	Boats at Steel Pier - Ames		4x5	
	55-00066	"	Barge Under Tow - Diamond Island		4x5	
	55-00067	"	Glass-bottom Boat Showing Grey Scales (1948)		5x7	
	55-00068	"	Water Temperature Thermometer - D.I.		4x5	
	55-00069	"	Photometer Track at Diamond Island		4x5	
	55-00070	"	Photometer Track at D.I. Under Construction		4x5	
	55-00071	"	Sun Path on Water		4x5	
	55-00072	"	Sun Path on Water		4x5	
	55-00073	"	Copy of Retouched Photo of Underwater Photometer Circuit & Recorder		5x7	
	55-00074	"	Sea State Meter - Hanging from Tower at Diamond Island		4x5	
	55-00075	"	R.R. III - Taken by garage in driveway		5x7	
	55-00076	"	Sea State Meter - Studio Shot		4x5	

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					NEGATIVE	SLIDE
	55-00077	"	Sky State Meter - H Ball		4x5	
	55-00078	"	Tower at D.I. with Lagoon in Foreground		4x5	
	55-00079	"	M.R. I		4x5	
	55-00080	"	Dark Room at Diamond Island - Copy		3 $\frac{1}{4}$ x4 $\frac{1}{4}$	
	55-00081	"	Sea State Meter - Close-up of Water Surface (Copy)		3 $\frac{1}{4}$ x4 $\frac{1}{4}$	
	55-00082	"	Office Bldg. at Diamond Island (Copy)		3 $\frac{1}{4}$ x4 $\frac{1}{4}$	
	55-00083	"	Sky State Meter - Full View		4x5	
	55-00084	"	Loading Sea State Meter & Underwater Photometer on Truck		4x5	
	55-00085		Copy of Aerial Photo of Submerged Sub		4x5	
	55-00086		Chart - Program of the Visibility Lab.		4x5	
	55-00087		Chart - Complete Breakdown of Program of Visibility Lab.		4x5	
	55-00088		Chart - Shows Flow of Authority		4x5	
	55-00089		Chart		4x5	
	55-00090		Chart - no neg.		4x5	
	55-00091		Chart - no neg.		4x5	
	55-00092		Chart - no neg.		4x5	
	55-00093		Chart - Luminomas - Radir Luminance		4x5	
	55-00094		Copy of Paint sent to Dr. Blackwell of Plane on Black Back		4x5	
	55-00095		Photograph of Trailer		4x5	
	55-00096		Sky State Meter with Hut On		4x5	
	55-00097		Plane in Sphere - Closeup Showing Suspension		4x5	
	55-00098		Hulbudt Skies on Rubber Balls - Millie in Photo		4x5	
	55-00099		Hulbudt Skies on Rubber Balls - Millie in Photo		4x5	
	55-00100		Spectogeograph		4x5	
	55-00101		Underwater Photometer Control Panel - 2 neg.		4x5	
	55-00102		Charts		4x5	

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DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	55-00103		Chart - Effective Stimulus Duration in Seconds		4x5	
	55-00104		Chart		4x5	
	55-00105		Equipment		4x5	
	55-00106		Chart from "Vision Through the Atmosphere"		4x5	
	55-00107		Chart from "Vision Through the Atmosphere"		4x5	
	55-00108		Chart from "Vision Through the Atmosphere"		4x5	
	55-00109		Chart from "Vision Through the Atmosphere"		4x5	
	55-00110		Charts made for Tyler 4-2-53 - Detection Range-Meteorological Range		4x5	
	55-00111				4x5	
	55-00112		Charts made for Mr. Tyler 4-2-53		4x5	
	55-00113		" " " " " "		4x5	
	55-00114		" " " " " "		4x5	
	55-00115		" " " " " "		4x5	
	55-00116		" " " " " "		4x5	
	55-00117		" " " " " "		4x5	
	55-00118		" " " " " "		4x5	
	55-00119-10		Slide negs. of 1948 Results-Drawings by Stuart Brown		4x5	
	55-00120		Chart - Decimal Equivalents of One Inch		4x5	
	55-00121		Chart - Screw Hole Sizes		4x5	
	55-00122		Chart - Sea State Meter - D.C. Amplifier		4x5	
	55-00123		Chart - Three Log Density and Contrast Scale		4x5	
	55-00124		Chart - Mark I Mod. II Amplifier		4x5	
	55-00125		Chart - Regulated High Volt Power Supply		4x5	
	55-00126		Chart - Regulated Power Supply		4x5	
	55-00127		Chart		4x5	

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DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	55-00128		Chart		4x5	
	55-00129		Chart		4x5	
	55-00130		Chart - no neg.		4x5	
	55-00131		Chart - Underwater Pattern Distribution		4x5	
	55-00132		Y Meter Close-up - 8/53		4x5	
	55-00133		Y Meter - John Hood in Photograph - 8/53		4x5	
	55-00134		Four Log Photometer Chassis - Front View		4x5	
	55-00135		Four Log Photometer - Top View		4x5	
	55-00136		Four Log Photometer Chassis - Bottom View		4x5	
	55-00137		Underwater Photometer Panel - 360° Dial		4x5	
	55-00138		Half Open Sphere with Al Boileau in Photo		4x5	
	55-00139		Close-up of Half of Sphere Showing Plane Suspension		4x5	
	55-00140		Sphere - Uncompleted - Boileau Holding Plane		35 mm	
	55-00141		Vapor Trails - Made for Comdr. Brown		35 mm	
	55-00142		Machine Shop San Diego - Machinery Side 8/53		4x5	
	55-00143		Machine Shop - Machinery Side 8/53		4x5	
	55-00144		Machine Shop - Bench Side 8/53		4x5	
	55-00145		Machine Shop - Bench Side 8/53		4x5	
	55-00146		Transmission Densitometer - Closeup of Project Head		4x5	
	55-00147		Transmission Densitometer - Showing Grey Scale Projected		4x5	
	55-00148		Electronics Lab - 8/53		4x5	
	55-00149		Electronics Lab - 8/53		4x5	
	55-00150		Chart - Contrast		4x5	
	55-00151		Chart		4x5	
	55-00152		Chart		4x5	
	55-00153		Chart		4x5	

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					NEGATIVE	SLIDE
	55-00154		Chart		4x5	
	55-00155		Chart		4x5	
	55-00156	DIA. IS.	Underwater Barge - Copy Negative Background Retouched		4x5	
	55-00157	"	Tower at Diamond Island		35 mm	
	55-00158	"	Tower at Diamond Island - Side View		35 mm	
	55-00159	"	Tower at Diamond Island		35 mm	
	55-00160	"	Sea State Meter in Operation		35 mm	
	55-00161	"	Sea State Meter - Shows Tower & Float Supports		35 mm	
	55-00162	"	Sea State Meter - Control Panel		35 mm	
	55-00163	"	Sea State Meter - Close-up in Water		35 mm	
	55-00164	"	Sea State Meter in Operation		35 mm	
	55-00165	"	Sea State Meter - Front View of Control Panel		35 mm	
	55-00166	DIA. IS.	Tower at D.I. - Close-up of Electronics Bldg.		35 mm	
	55-00167	"	M.R. II at Diamond Island		35 mm	
	55-00168	"	M.R. II at Diamond Island		35 mm	
	55-00169	"	M.R. II - Brown Recorder Unit for M.R. II		35 mm	
	55-00170	"	Tower at Diamond Island - Glass Bottom Boat in Operation		35 mm	
	55-00171	"	M.R. II - Diamond Island		35 mm	
	55-00172	"	M.R. II at D.I. - General View Showing Recording Cabinet		35 mm	
	55-00173	"	M.R. II at D.I. - General View Showing Recording Cabinet		35 mm	
	55-00174	"	M.R. II at D.I. - General View Showing Recording Cabinet		35 mm	
	55-00175	"	M.R. II at D.I. - Close-up of M.R. II		35 mm	
	55-00176	"	M.R. II at D.I. - High View Looking Down on M.R. II		35 mm	
	55-00177	"	M.R. II at D.I. - Close-up of M.R. & Recording Cabinet		35 mm	
	55-00178	"	M.R. II at D.I. - General View Showing Recording Cabinet		35 mm	
	55-00179	"	Tower at D.I. Showing Electronics Bldg.		35 mm	

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DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	55-00180		Underwater Photometer Head - Close-up of Head Only			
	55-00181		Spectrograph - Block Diagram		4x5	
	55-00182		Chart - Summary of Gulf of Main and Woods Hole Series		4x5	
	55-00183		Chart - Summary of 1931 Observations		4x5	
	55-00184		Chart - Comparison of Spectral Sensitivities of Photometer		4x5	
	55-00185		Cover for High Sun Photograph		4x5	
	55-00186		Comdr. Brown's Submarine Photometer - Closeup of Disc		"	
	55-00187		Comdr. Brown's Submarine Photometer - Overall View		"	
	55-00188		Comdr. Brown's Submarine Photometer - Overall View		"	
	55-00189		Copy - Journal of Marine Research 1937 - Fig. 27		4x5	
	55-00190		Copy - Journal of Marine Research 1937 - Fig. 28		4x5	
	55-00191		Copy - Journal of Marine Research 1937 - Fig. 29		4x5	
	55-00192		Chart		4x5	
	55-00193		Chart - Depth in Meters		4x5	
	55-00194		Copy - Sept Electronics 1953, Pages 192 thru 194		4x5	
	55-00195		Bureau of Standards Lens Resolutions Charts (4 negs)		4x5	
	55-00196		Chart - Nomograph - Sky and Ground Ratio		4x5	
	55-00197	DIA 14	Diamond Is. - Group Photograph of 1953 Personnel		4x5	
	55-00198	"	Diamond Is. - Mr. Pinkham with T Light Unit		4x5	
	55-00199	"	Diamond Is. - Mr. Pinkham with T Light Unit		4x5	
	55-00200	"	Diamond Is. - Mr. Pinkham with T Light Unit			
	55-00201		Spectrogeograph - Closeup of Measuring Device for Spectrum		4x5	
	55-00202		Spectrogeograph - Front View with I.D. Camera		4x5	
	55-00203		Spectrogeograph - Side View with Recording Units on Stand		4x5	
	55-00204		Spectrogeograph - View Showing Cardboard Damper Used to			
			Slow Down Action of Scanner		4x5	



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DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	55-00205		Spectrogeograph - Line Drawing		4x5	
	55-00206		Spectrogeograph - Shot with Instruments connected and on Separate Tables		4x5	
	55-00207		Spectrogeograph - Close-up of Early Scanner Device with Cardboard for Slowing Down Action		4x5	
	55-00208		B-36 Blue Prints (Copy)		4x5	
	55-00209		B-29 Blueprints (Copy) Line Dwgs. Side View of B-29		4x5	
	55-00210		B-29 - Showing Placement of Gear in Airplane (Copy)		4x5	
	55-00211		Line Drawing of M.R. Meter for Airplane (Copy)		4x5	
	55-00212		Line Drawing of Nephelometer for Airplane (Copy)		4x5	
	55-00213		Line Drawing of Motion Picture Studio (Copy)		4x5	
	55-00214		Line Drawing of Light Box (Copy)		4x5	
	55-00215		Line Drawing of Michigan Set-up (Copy)		4x5	
	55-00216		Chart of Field Operations (Copy)		4x5	
	55-00217		Chart of Military Calculation Panel (Copy)		4x5	
	55-00218		Chart of Program of Vis. Lab. (Copy)		4x5	
	55-00219		Organization Chart - Base Research Panel (Copy)		4x5	
	55-00220		Nomograph		4x5	
	55-00221		Nomograph		4x5	
	55-00222		Article Title "Scattering in Planetary Atmosphere (Copy)	F. Culver	4x5	
	55-00223		Y-Meter for Airplane		4x5	
	55-00224		Nephelometer-Studio Shots of Unit - Head-on View Showing Baffles		4x5	
	55-00225		Nephelometer - 45° View Showing Baffles		4x5	
	55-00226		Reflex Telephotometer - Studio Shot		4x5	
	55-00227		E Meter for Airplane		4x5	

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DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	55-00228		Wind Tunnel Test #1 - M.R. for Airplane (9)			
	55-00229		Movie Studio - Looking Aft at the Instrument Panel Thru Glass		4x5	
	55-00230		Movie Studio - Wide Angle View of Control Panel		4x5	
	55-00231		Movie Studio - Shot of Projectors and Screen (3)	35 mm &	4x5	
	55-00232		Movie Studio - Lights on Screen (Arrangement) (2)		4x5	
	55-00233		Trailer - Side Views Showing U.S. Navy on Side (2)		4x5	
	55-00234		Sphere - Plastic Beam for Plane Support of B-36		4x5	
	55-00235		Sphere - Plane Mounting for New Spheres Showing B-47 & Lights		4x5	
	55-00236		Sphere - Shot Showing Bob Maloney Painting		4x5	
	55-00237		Sphere - Closeup of $\frac{1}{2}$ of Sphere Showing How They are Laid Out for Painting		4x5	
	55-00238		Sphere - Mode of B-47 Showing the Stand and how we Obtain Models for Program		4x5	
	55-00239		Sphere - Xmas Tree in Place for Measuring Integrating Effects		4x5	
	55-00240		Sphere - Camera and Mount in Place in a Sphere Hole (2)		4x5	
	55-00241		Sphere - Shot of all the Spheres Lined in a Row (2)		4x5	
	55-00242		Sphere		4x5	
	55-00243		Sphere		4x5	
	55-00244		Sphere		4x5	
	55-00245		Sphere - Open to show Model in Place with Power Unit Attached		4x5	
	55-00246		Sphere		4x5	
	55-00247		Sphere		4x5	
	55-00248		Sphere - Night Sky - Open View		4x5	
	55-00249		Sphere - Inclosed Position with Camera in Place		4x5	
	55-00250		Photograph of Large Grey Scale for Aerial Job		4x5	
	55-00251		Underwater Photometer - 1953 Cmdr. Brown		4x5	

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					NEGATIVE	SLIDE
	55-00252		Underwater Photometer - Cmdr. Brown 1954 (April 12, 1954)		4x5	
	55-00253		Underwater Trombone - Cmdr. Brown (April 12, 1954)		4x5	
	55-00254		Underwater Gear - Cmdr. Brown - 4/12/54		4x5	
	55-00255		Underwater Trombone - Cmdr. Brown - 4/12/54		4x5	
	55-00256		Underwater Photometer - 1953		4x5	
	55-00257		B-36 Information - Observer in 157 $\frac{1}{2}$ <sup>o</sup> (CONFIDENTIAL) (Safe)			
	55-00258		Hook Lense Testing Apparatus (2)		4x5	
	55-00259		Journal of Marine Research 1941 - "The Angular Distribution of Characteristic Diffuse Light in Natural Waters" (10) (Copy)		4x5	
	55-00260		"On the Angular Distribution of Submarine Daylight and on the Total Submarine Illumination" (Copy) (13)		4x5	
	55-00261	D. I.	Storm Damage at Diamond Island (13)		35 mm	
	55-00262	11	Gear in Operation on Tower - Summer 1954 (19)		35 mm	
	55-00263		Dr. Ballard Lecture in Italy - Meter . . Range (4)		4x5	
	55-00264		M.R. III - Closeup of Front Photo Cell		4x5	
	55-00265		M.R. III - Photo Taken in Shop Showing Whole Inst. (2)		4x5	
	55-00266		M.R. III - Rear View of Photo-Cell Unit (2)		4x5	
	55-00267		M.R. III - Cover Removed Showing Heating Coil and Lens		4x5	
	55-00268		M.R. III - View of Mirrors - Head-on and Side) (2)		4x5	
	55-00269		M.R. III - Side View of Whole Inst.		4x5	
	55-00270		Albedo of Sea to Skylight (4) (Copy)		4x5	
	55-00271		Cloud Formation - Cmdr. Brown (2)		4x5	
	55-00272		Hexagonal Patterns - Dr. Duntley (8) Restricted		35 mm	
	55-00273		Spectro Photometer with Chassis & Meter (2)		4x5	
	55-00274		Cathode Sensitivity of Photomultiplier Tubes		4x5	
	55-00275		Lower Sky Scanner - Installation on Airplane (5)		35 mm	

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					NEGATIVE	SLIDE
	55-00276		M.R. III - M.R. Mounted on Airplane (4)		4x5	
	55-00277		E Meter - Location and Mounting on Airplane (3)		4x5	
	55-00278		Y Meter - Mounted on Airplane (2)		4x5	
	55-00279		Underwater Flare - Flare Rack Being Lowered in Water		4x5	
	55-00280		Underwater Flare - Shipboard Shot of Flare Rigging (3)		4x5	
	55-00281		Underwater Flare - Rigging Being Lowered Over Side into Water (2)		4x5	
	55-00282		Underwater Flare - Placing Flare in Rack		4x5	
	55-00283		Underwater Flare - Brown Recorder Racks		4x5	
	55-00284		Underwater Flare - Closeup of Flare Rack (2)		4x5	
			Closeup of Camera Case			
	55-00285		Transmission Densitometer - Side View		4x5	
	55-00286		Transmission Densitometer - Closeup of Projector Head		4x5	
	55-00287		Transmission Densitometer - Slide Being Projected		4x5	
	55-00288		Instrument House on Top of Bldg. - Photos of Installation (4)		4x5	
	55-00289		Silhouette of B-47 and B-36		4x5	
	55-00290	DIA. 15.	Dr. Ballard - Report on 1954 Diamond Is. Activities (5)		4x5	
	55-00291		Lower Sky Scanner - Airplane Mounting & Lower Sky Scanner (2)		4x5	
	55-00292		Instruments on Airplane - 35 mm shots of M.R. and Y-			
			Meter on Airplane (14)		35 mm	
	55-00293		Boileau - Match of Plates with B-47		4x5	
	55-00294		Boileau - Plate Matches with B-47 Plate (2)		4x5	
	55-00295		Boileau - Reynolds Wrap & Plate Match with B-47 Plate (2)		35 mm	
	55-00296		Coronado Island Trip - Underwater Photometer 1953 (7)	J. Tyler	4x5	
	55-00297		Airplane - Inside shots of equipment and racks - 1954 and			
			Nose View of B-29 (7)		4x5	
	55-00298		Upper Sky Scanner - Taken in Shop - Inside & out of Inst. (8)		4x5	

NEGATIVES 1955

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	55-00299		Rudy's Globe		4x5	
	55-00300		"Radiation Through a Foggy Atmosphere" by Arthur Schuster (Copy)(12)		4x5	
	55-00301		K Meter - Taken in Shop (4)	J. Tyler	4x5	
	55-00302		K Meter in Operation (2)		4x5	
	55-00303		Beta Meter (3)		4x5	
	55-00304		Lower Sky Scanner Mounted on Plane (Copy)		4x5	
	55-00305		Underwater Photometer in Operation - March 1955 (11)	J. Tyler	4x5	
	55-00306		"Screw Thread Systems" from Flexible Shaft Handbook (Copy) (2) <sup>p230</sup> <sub>231</sub>		4x5	
	55-00307		Laminal Contrast Tables (copy) (5)		4x5	
	55-00308		Variation of Contrast with Depth - John Tyler (13)		Slides	13
	55-00309	DIA. IS.	Storm Damage at Diamond Island - 1954 (22) Roll #1		35 mm	
	55-00310	"	Storm Damage at Diamond Island - 1954 (21) Roll #2		35 mm	
	55-00311		John Tyler - Copy of Charts for Lantern Slides (2)		4x5	2
	55-00312		Copies Taken by John Tyler to Obtain Projected Area of B-36 (24)		4x5	
	55-00313		Boileau - Plate Match of B-47 Surface (2)		4x5	
	55-00314	(Copy)	Heat Treatment of Cathode Ray Tube Shields (NEL Report M-2404)(9)		4x5	
	55-00315		Photograph of Lower Hemisphere Liner for 12° Sphere (No neg.)			
	55-00316	DIA. IS.	Diamond Is. - Bill Culver's Experimental Gear - Summer 1954 (13)		35 mm	
	55-00317		Sphere - Liner for 12° Sphere		4x5	
	55-00318		A 1 Boileau - Plate Match (3)		35 mm	
	55-00319		"Visibility from Aircraft" for Dr. Duntley Paper - Fall of 1954 (4)		4x5	
	55-00320		Underwater Test Objects Model		Slide	
	55-00321		Chart - Luminance Unit Conversion - JHT (2)		4x5	
	55-00322	(Copy)	"Veber Das Gleichgewicht Der Sonnenatmosphäre" by Schwarzschild (14)		4x5	
	55-00323		Chart - Tyler - Colormetry (2)		4x5	

NEGATIVES 1955

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	55-00324		Installation of M.R. Meter on B-29 (14)		4x5	
	55-00325		Dfakroom Plans (4)		4x5	
	55-00326		"Zeitschrift Fur Physik - 1929 (5)(Copy)- Oct.-Dec. 1929		4x5	
	55-00327		"Zeitschrift Fur Physik - 1929 (6)(Copy)-Nov'28-Jan'29		4x5	
	55-00328		"Zeitschrift Fur Physik - 1930 (6)(Copy)-Dec'29-Jan'30		4x5	
	55-00329		Sphere Program Report - Boileau (Copy) (6)		4x5	10
	55-00330		Al's Test Plates		Large	
	55-00331		Airline Ticket (Copy) ✓		4x5	
	55-00332		Goniophotometer and Recorder		4x5	1
	55-00333		Drawing - Exploded View - Underwater Spectrophotometer (Copy)		4x5	2
	55-00334		Polar Graph (Copy)		4x5	
	55-00335		Laws of Eye Movement and Vision (Copy) (6)		4x5	
	55-00336		PSA Journal - Method for Determining Areas of Equidensity in Photographs (Copy) (6)		4x5	
	55-00337	(Copy)	"Eine Klasse Singularer Integralgleichungen"- Hopf (Copy) (6)		4x5	
	55-00338	(Copy)	"Uber Eine Klasse Singularer Integralgleichungen" -Weiner & Hopf(12)		4x5	
	55-00339	(Copy)	"Schwarzschild-Milne - Model of Outer Layers of a Star"-Hopf (8)		4x5	
	55-00340	(Copy)	"Uber Lineare Integralgleichungen Mit Positivem Kern" -Hopf (14)		4x5	
	<del>55-00341</del>	(Copy)	<del>Notes on the Temperature Distribution in the Deep Layers of Stellar Atmospheres</del>			
	55-00341	(Copy)	On the Schwarzschild-Milne Model of the Outer Layers of a Star II - Hopf (7)		4x5	
	55-00342	(Copy)	"Notes on the Temperature Distribution in the Deep Layers of Stellar Atmospheres" - M. Bronstein (7)		4x5	
	55-00343	(Copy)	"Integral Equation for Radiative Equilibrium" - Freundlich, Hopf & Wegner (5)		4x5	

NEGATIVES 1955

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	55-00344		Robot Calibration (9)		35 mm	
	55-00345		B-52 Studio Shot		4x5	
	55-00346		(copy) Polar Graph (Bryant)		4x5	
	55-00347	(Copy)	"Uber Diffusion Und Absorption in Der Sonnenatmosphare" K Schwarzschild (19) Pages 1183 to 1200		4x5	
	55-00348	(Copy)	Drawing of Spectogeograph Periscope Assembly		4x5	
	55-00349	(Copy)	Drawing of Malus Calibrator		4x5	
	55-00350	(Copy)	Drawing of Spectrogeograph-Scanner Assembly (2)		4x5	
	55-00351	(Copy)	Polar Graph		4x5	
	55-00352		Rig for Photographing Underwater Targets (3)		4x5	
	55 -00353	(Copy)	Colorimetry Chart		4x5	
	55-00354	(Copy)	Trans. of Opt. Inst. of Leningrad - Vol. 6 - 1931 #57 pp. 1 - 20 (20)		4x5	
	55-00355	(Copy)	Trans. of Opt. Inst. of Leningrad - Vol. 6 - 1931 #59 pp. 1 - 15 (17)		4x5	
	55-00356	(Copy)	Trans. of Opt. Inst. of Leningrad - Vol. 6 - 1936 #99 pp. 3 - 16; 43 - 77 (56)		4x5	
	55-00357		Underwater TV Program - Trip Shots (5)		4x5	
	55-00358		Chem-Illumen Experiment		4x5	
	55-00359	(Copy)	"Effect of Collisions on Monochromatic Radiative Equilibrium" - Milne (16)		4x5	
	55-00360	(Copy)	Development Chart		4x5	
	55-00361		Underwater TV Program - Trip Shots 6/25/55 (6) J. Zyle	(Slide)	4x5	
	55-00362	(Copy)	Chart - Declination of Sun & Equation of Time (6)		4x5	
	55-00363		Lantern Slide Labels		4x5	
	55-00364		Thermal Expansion Apparatus - Top View (S.S. Ballard)		4x5	

NEGATIVES 1955

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	55-00365		Thermal Expansion Apparatus - Side View (S.S. Ballard) (From Slides)		4x5	
	55-00366	(Copy)	Line Drawing - Thermal Expansion Apparatus (S.S. Ballard)		4x5	
	55-00367	(Copy)	Analog System representing the Eye (S.S. Ballard) (2)		4x5	
	55-00368		Trailer Scanner (33)		4x5	
	55-00369	(Copy)	Upper Hemisphere Scanner Rule		4x5	
	55-00370		Converted Binocular Columator (2)		4x5	
	55-00371		Spectrogeograph B-29 Installation (2)		4x5	
	55-00372	(Copy)	Machine Screw Sizes		4x5	
	55-00373		Dr. Ballard Underwater TV (10)	J. Tyler	4x5	
	55-00374	(copy)	H Meter for B-29 Tube #244 - 7-15-56		4x5	
	55-00375	(Copy)	B-29 Telephotometer Scale - Chassis #26 - 7/7/54		4x5	
	55-00376	(Copy)	Short Path M.R. - 5/9/55		4x5	
	55-00377	(Copy)	Long Path M.R. - 5/10/55		4x5	
	55-00378	(Copy)	Trailer - Upper Hemisphere Scanner - 7/1/55		4x5	
	55-00379		Exploded Underwater Photo (Filed with 55-403)		4x5	
	55-00380		Chart - Montage			
	55-00381	(Copy)	Comp. of Angular Rates of Change - $\cos^2\theta$ & $\cos^4\theta$ Optic Density Graph(3)		4x5	
		(Copy)	Straight Line Represents $\cos^4$ Law - Graph			
		(Copy)	Schematic Diagram of Molus Calibrator			
	55-00382		El Capitan Trip - John Tyler Neg. - Underwater Photometer (No Neg.)			
	55-00383		Line Drawing of High Speed Spectrophotometer (No Neg.)			
	55-00384		Brown Recorder Rule for Lower E and Y Scale		4x5	
	55-00385		Lower E Calibration Scale		4x5	
	55-00386		Path Function Scales (4)		Large	
	55-00387		Proposed Alterations for Bldg. 347 9/6/55		4x5	
	55-00388		Outside Trailer Shots of Equip. - M.R., Y Meter, Scanner etc. (No Neg.)			



NEGATIVES 1955

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	55-00389		Inside Trailer Photos (8)		4x5	
	55-00390		Trailer Air Conditioning Unit (2)		4x5	
	55-00391		Charts - Dr. Duntley (24)		4x5	
	55-00392		Trailer Vis. Lab. Sign being Painted (2)		4x5	
	55-00393		Trailer - Ground Gonio with plain white background		4x5	
	55-00394	(Copy)	Calibration Rules		Large	
	55-00395		Underwater Photometer - Line Dwg. - Head Exploded	<i>J. Tyler</i>	4x5	
	55-00396		Radiance Distribution Boxes - John Tyler 9/23/55 (6)		4x5	
	55-00397	(Copy)	"Resolving Power & Information" (5)		4x5	
	55-00398		Airplane Calibration Simulator (8)		4x5	
	55-00399		Trailer Gonio Photometer (6)		4x5	
	55-00400		Studio Shot Hydrophotometer	<i>J. Tyler</i>	Slide	2
	55-00401		Line Dwg. High Speed Spectrograph (4)		4x5	
	55-00402		Up=Down Ratio Rig (3)	<i>J Tyler</i>	4x5	
	55-00403		Underwater Photometer - Exploded View of Head (Also 55-379) (3) "		4x5	
	55-00404		Trailer - Composite of Instruments for Sept. Report (8)		4x5	
	55-00405		Underwater Photometer turned upside down (5)	<i>J. Tyler</i>	4x5	2
	55-00406		John Tyler - Slides negs. for Pitts Convention (6)	"	Slides	6
	55-00407		Line Dwg. of Harbor Buoys for TV Program			
	55-00408		Solar Depression 12" Geometry 90-90-0 (6) CONFIDENTIAL			
	55-00409	(Copy)	Photometry at Low Levels (6)		4x5	
	55-00410		Trailer Equipment - Outside Shots (9)		4x5	
	55-00411		M.R. Aboard Spencer F. Baird		4x5	
	55-00412		T.V. Special - Dr. Ballard - Frame #1		4x5	
	55-00412		Inside of B-29 (8)		4x5	
	55-00413		Underwater Flare Report (1-4) (12)		35 mm.	

NEGATIVES 1955

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	55-00414		Photographic Sensitometry Article (55)		4x5	
	55-00415		Ra diation on the Transmission of Heat Chart (10)		4x5	
	55-00416		Charts for Mr. Tyler (7)	J. Tyler	4x5	
	55-00417		Charts for Mr. Tyler (3)	"	4x5	
	55-00418		Gammeter		Large	
	55-00419		Neg. of University Scripps at San Diego		Large	
	55-00420		Fred Pinkham standing by Trailer (2)		4x5	
	55-00421		B-36 Flight (Lower Ship) (30)		35 mm.	
	55-00422	DIA. I.S.	Diamond Island (4)		4x5	
	55-00423		Interior & Extension Views of Vis Lab (18)		35 mm.	
	55-00424	DIA. I.S.	Sea State Meter - Diamond Island (9)		35 mm.	
	55-00425	"	Diamond Island (6)		35 mm.	
	55-00426		B-36 Flight (36)		35 mm.	
	55-00427		Tank & Solder Model (10)		35 mm.	
	55-00428	(Copy)	Article in German		4x5	
	55-00429		B-29 High Altitude Flight (9)		35 mm.	
	55-00430		B-36 Flight (35)		35 mm.	
	55-00431		B-36 Flight (9)		35 mm.	
	55-00432		Copies Underwater Photos (9)	J. Tyler	35 mm.	
	55-00433		B-36 Flight (36)		35 mm.	
	55-00434		Mr. Tyler Vision (26)			
	55-00435		Dr. Duntley M.R. Meter with Ansco Densitometer Equipment (9) 1 Slide		4x5	
	55-00436		Sea State Charts (6)		4x5	
	55-00437		Special Equipment		4x5	
	55-00438		Special Equipment		4x5	
	55-00439		Chart (Table New London) Space volume curves showing difference in shape between old and new monographs		4x5	



Date	Name	Classification	Slides
3/25/55	John Tyler	(Dimensional Colorimetry)	3 Slides
3/23/55	John Tyler	55-00308 made from Originals (8x5)	13 Slides
3/29/55	John Tyler	New 3 dimensional colorimetry	8 Slides
3/15/55	John Tyler	55-00311	
		copy of charts for Sautere Slides For lecture in Washington	2 Slides
5/4/55	Al Boileau	Original Fig 4,5	10 Slides
		55-00329 (1-6) Sup no. Fig 10,4	
		55-00330 Sup no. 1,2,3,4,5,6	
5/9/55	Al Boileau	Goniophotometer (55-00332)	1 Slide
5/6/55	John Tyler	55-00333 Drawings Exploded View underwater Spectrophotometer	2 Slides
7/15/55	Jim Harris	Dev 35 mm on Film slides made of each Frame	1 Slide
7/19/55	Dr. Ballard	55-00367 (1-2) Black Diagram of Analog System Representing the eye	2 Slides
7/31/55	Dr. Ballard	Malus calibration 55-00349	1 Slide
8/11/55	Bob Sandberg	Grey scale 18A	1 Slide
8/12/55	Dr. Ballard	55-00305-05 Photometer in operation	
		55-00324-14 Installation of AIR PLANE Equip	2 Slides
8/22/55	Dr. Ballard	381 (1-3) copy optic density graph	3 Slides
9/7/55	John Tyler	308-9 Storm Drain Diamond Island	2 Slides
		405 underwater PHOTO meter	2 Slides
9/12/55	Dr. Ballard	381-3 copy optic graph	1 Slide
9/14/55	John Tyler	55-00400 Beta meter and Frame for F meter and other 55-00402 Instrument	2 Slides
9/25/55	John Tyler	55-406 Tables part of the Pitts conference	1 Slide
9/28/55	John Tyler	55-379 Exploded View underwater Photometer Head	1 Slide
9/29/55	Jim Libranil	Spectrum Print	1 Slide
9/22/55	Dr. Ballard	371-1 Spectrograph	2 Slides
		372-2 B-29	
9/20/55	John Tyler	55-00406 Drawings for Pitts conference	5 Slides

Total Slides made 1955

NEGATIVES 1956

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	56-0001(1-6)		Special Project - Francis Howard (Decay Meter)		No Neg.	
	56-0002		Underwater T.V. Set Up (2)		4x5	1
	56-0003		Line Drawing Underwater T.V. Set Up - Dr. Ballard	Dr. Ballard	4x5	1
	56-0004		Up-Down Ratio Read T.V. - Dr. Ballard	Dr. Ballard	4x5	1
	56-0005		Underwater Wigwam - Scripps - Dr. Duntley (2)	Dr. Duntley	4x5	2
2/24/56	56-0006		Charts for Dr. Duntley (4)	Dr. Duntley	4x5	4
2/29/56	56-0007	S.A.C.	Psychophysis Tunnel - Observer at Work for Dr. Morris(2)		4x5	
3/7/56	56-0008		Underwater T.V. Study - Dr. Ballard (3) Confidential Speech		4x5	3
"	56-0009		Relative Detector Sensitivity Chart	Dr. Ballard	4x5	1
"	56-0010	S.A.C.	Open Sphere (New Lighting) Used B-52		4x5	
"	56-0011	S.A.C.	Close-up Model Sphere Support B-52	J. Taylor	4x5	
"	56-0012		Charts (8)	J. Tyler	4x5	8
"	56-0013	S.A.C.	Projector & B.G. Illuminator		4x5	
"	56-0014		Line Drawing T.V. Simulator Device	Dr. Ballard	4x5	
3/28/56	56-0015		Airplane & Trailer Photos - Florida Trip 1956	Dr. Duntley	2 1/4 x 1 1/4	2
"	56-0016		Copies of Recorder Tape Samples - Airplane and Trailer			
"			Recording Equipment (7)	Dr. Duntley	4x5	
"	56-0017		Optical Properties of Harbor Water Chart	J. Tyler	4x5	1
"	56-0018		Target as seen by Observer in Viewing Tunnel	"	4x5	1
"	56-0019		EAFB - Inside of B-29 (Edwards Air Force Base)	Dr. Duntley	4x5	7
3/27/56	56-0020		Slide for Dr. Duntley 4-2-56 Speech (Confidential) (5)	Dr. Duntley	4x5	5
"	56-0021		Underwater T.V. Simulator Device (56-0002) Retouched			
"			for Report) (2)		4x5	2
"	56-0022		Underwater Camera Case for Underwater T.V. Program		4x5	1
3/26/56	56-0023		Underwater Photometer Nepelometer (3)	J. Tyler	4x5	1
"	56-0024		Charts for Dr. Duntley's Apr. 2, 1956 Speech at			
			Boston (13)	Dr. Duntley	4x5	13

NEGATIVES 1956

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
4/2/56	56-0025		Charts (Conference) 4-2-56 (2)	J. Taylor	4x5	2
"	56-0026		White Cap Telephotometer Theodylite & Instruments (4)		4x5	2
"	56-0027		White Cap Simulator Unit - Screen & Receiver Tube		4x5	1
"	56-0028	HOOK	Charts - Confidential	J. Harris	4x5	1
"	56-0029	HOOK	Chart - Confidential	J. Harris	4x5	1
5/1/56	56-0030		Luminance (Foot Lamberts) (2)	Dr. Duntley	4x5	4
5/3/56	56-0031		Commander Walsh Data Meter Analysis (2)		No Neg.	2
	56-0032		Trailer Overturned on S.E.A. Campus (2)		4x5	
	56-0033		Chart - Light Meter Reading to Camera Chart-Theodylite Proj.		4x5	
	56-0034		Copy Nomograph	J. Gordon	4x5	
	56-0035		Microwave Refraction Modulus Chart (4)	Dr. Duntley	4x5 8x10	4
	56-0036		Electronic Parts (2) (Fred Rios)		4x5	
	56-0037		Photometer (Woodside) (4)		4x5	
	56-0038		Satellite Material (4) <i>speech at State college</i>	Dr. Duntley	4x5	4
	56-0039	S.A.C.	Curves for July 1956 - Cover for Report (2)	Dr. Morris	4x5	
	56-0040		Optical Theorize & Instrumental 7-18-56 (3)	Dr. Duntley	4x5	
	56-0041		Dr. Taylor's trip on destroyer - pictures of planes	Dr. Taylor	No Neg.	
	56-0042		Russ Huntoon - Airplane - 8, 9, 12, 13, 22, 23, 24, 25, 26, 27, 28 - 4x5 negs. - 10, 11, 14, 15, 16, 17, 18, 19, 20, 21, 44, 1, 2, 3, 4, 5, 6, 7 - 35 mm. (29)		4x5 35 mm.	
	56-0043	(Copy)	Article from Electronic Design specifying Toroidal Reactor with Graphs (2)	Mr. Nelson	4x5	
	56-0044		Snarkel Wake Simulator (4)	J. Harris	4x5	
8/16/56	56-0045		Airplane M.R. (Installation of Calibration on Plane (7)		4x5	
"	56-0046		Charts - Plane Targets (8)	Dr. Morris	4x5	
"	56-0047	(Copy)	Article "Optical Properties of Aerosols" (33)	A. Boileau	4x5	



## NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	57-0001		Missile Photometer, used for direct measure of sun. <sup>(2)</sup> 1/2/57	S. Duntley	4x5	
	57-0002	<i>Trans. to 61-0051</i>	--NO NEGATIVE** Confidential charts for Bull Pup Project <sup>(5)</sup>	"		5
	57-0003		Graph: Memory Map	J. Rennison	"	
<i>*</i>	57-0004		Graphs: Lake Winnepesaukee Field Station	J. Tyler	"	
	-1		Volume Scattering Function	"	"	/
	-2		Concentration	"	"	/
	-3		Underwater Nephelometer, Beam Cross Section vs Relative Intensity	"	"	/
	-4		Wavelength vs Reading	"	"	/
	-5		Curves Marked "Hulburt" & "Sawyer" are $\mu'$ vs $\lambda$ for Distilled Water	"	"	/
	-6		Distilled Water -- Wave Length vs Percent Scattered	"	"	/
	-7		Nephelometer Volume Calibration	"	"	/
	-8		Angle of Azimuth vs Relative Radiance. 8/7/56	"	"	/
	-9		Semi-Overcast Sky	"	"	/
	-10		Underwater Nephelometer Telephotometer Beam	"	"	/
	-11		Diagram and formula	"	"	/
	-12		Log Volume Scattering Function	"	"	/
	-13		Optical System of Submarine Nephelometer	"	"	/
	57-0005		Crew of the B-29. Jan 18, 1957	S. Duntley	"	
	57-0006		Diffuse Sphere Collector, held by Tyler	J. Tyler	"	/
	57-0007		% Scattering Sphere, underwater gear	"	"	/
	57-0008		Nephelometer	"	"	/
	57-0009		% Scattering Sphere, held by Tyler	"	"	/
	57-0010		Ratio Meter (Galvanometer)	"	"	/
	57-0011		Sky Scanner	S. Duntley	"	



## NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
4	57-0012-1		Copy of article: Preparation for Use and Replacement	A. Boileau	4x5	
	-2		Schematic: Fig. 3.2. Probe Mounting Dimensions	"	"	
	57-0013-1-2		High Voltage Regulated Power Supply	G. Tate	"	
4	57-0014		Airplane: B-29, slight accident	Capt. Barrow	"	
	-1-3		Wheels	"	"	
	-4		Landing Gear Motor	"	"	
	57-0015		for Dr. Duntley speech	S. Duntley	"	(15)
	-1		Graph: Observer Direction: Perpendicular to Azimuth of Sun	"	"	/
	-2		Chart: Target Altitude 40,000 Ft. Alclad	"	"	/
	-3		Chart: Target Altitude: 40,000 Ft. Observer Altitude: 40,000 Ft.	"	"	/
	-4		Chart: Target Altitude 40,000 ft. Observer Altitude 30,000 ft.	"	"	/
	-5		Graph: Observer Direction: Toward Azimuth of Sun	"	"	/
	-6		Graph: Observer Direction Relative to Azimuth of Sun	"	"	/
	-7		Graph: Target Altitude: Sea Level	"	"	/
	-8		Chart: " 40,000ft. Observer Altitude: 40,000 ft.	"	"	/
	-9		Chart: Target: 40,000' Observer: 30,000'	"	"	/
	-10		Graph: Observer Direction: Away from Azimuth of Sun	"	"	/
	-11		Chart: Target: 40,000' Observer: 30,000'	"	"	/
	-12		Chart: Target: 40,000' Observer: 40,000'	"	"	/

## NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	57-0015-13		Observer Altitude: Sea Level	S. Duntley	4x5	/
	57-0016-1		Underwater Photometer, 1st test in Tank	J. Tyler	"	/
	<del>57-0017</del>		the photometer underwater			
	-2		top view of men looking into tank	"	"	/
	-3		"	"	"	/
	-4		side view "	"	"	
	-5		top view "	"	"	
	-6		"	"	"	
	-7		"	"	"	
	57-0017-1		Spot Meter, front view	A. Boileau	"	/
	-2		" side	"	"	
	-3		" 3/4 front	"	"	
	-4		" side	"	"	
	-5		" 3/4 front	"	"	
	57-0018		Sun Photometer for airplanes. Fred Pinkham stands by it.	F. Pinkham	"	
	57-0019		Graph: Instrument Reading	J. Tyler	"	/
	57-0020-1		Chart: The role of the structure axioms in the theory	R. Preisendorfer	"	
			of radiative transfer processes			
	-2		Chart: A Mathematical Foundation for Radiative Transfer	"	"	
			Theory			
	57-0021		Grid. --NO NEGATIVE--	J. Gordon		
	57-0022		Shimmer Meter, in Vis Lab Parking Lot	S. Duntley	"	
	57-0023		Underwater Photometer, inside on work table (4)	J. Tyler	"	
	57-0024		Machining the Sundial. (2)	J. Taylor	"	
	57-0025		Chart: Tho role of the structure axioms in the theory	R. Preisendorfer	"	/
			of radiative transfer processes			

## NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	57-0026		Polargraphs: Pikes Peak, Colorado, 21 Sept 56	J. Harris	4x5	
	-1		7000 ft. Altitude	"	"	1
	-2		20,000 ft	"	"	1
	-3		6172 ft.	"	"	1
	-4		15,000 ft.	"	"	1
	-5		20,000 ft.	"	"	1
*	57-0027-1-2		March Field Air Strips	S. Duntley	"	2
	-3		" , plane approaching	"	"	1
	-4		Diagram: Sylvania's EFAS, March AFB	"	"	1
	57-0028-1		Graph: Missile Azimuth vs Required Magnifying Power	"	"	1
	-2		Graph: Lens Diameter vs RMS Shimmer	"	"	1
	-3		Graph: Transmittance vs Altitude	"	"	1
	-4 - 5		Formula: B missile/B sky	"	"	2
	57-0029		--CONFIDENTIAL-- Charts (4)	J. Harris	"	4
	57-0030-1		used for talk May 15, 1957	Dr. A. Morris	"	1
			Air-to-Air Visibility During Twilight			
	-2		Graph: "Dark-Light" Pattern Target	"	"	1
	-3		Graph: "Uniform" Pattern Target	"	"	1
	-4		Graph: Target Brightness	"	"	1
	57-0031		Chart: 1-12 Target Representation	Dr. Morris	"	
	57-0032-1-6		Graphs: Average Plate Characteristics	Cardoza J. Harris	"	
	57-0033		Triangle	P. Garrett	"	
	57-0034		Filters --NO NEGATIVE--	Talling		
	57-0035		Sun Photometer, man using it	J. Gordon	"	
	57-0036		Missile Meter, from Florida trip	S. Duntley	"	
	57-0037-1		Lake Pend Oreille, men on boat	J. Tyler	"	4/23

## NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	57-0037-2		Lake Pend Oreille, Gov't building on dock	J. Tyler	4x5	↓
	-3		" Underwater Photometer	"	"	↓
	57-0038		Graph: Temperature - Vortex Thermometer vs Altitude Flight 107, 27 April 1957, Bahama Is.	A. Boileau	"	3
*	57-0039-1		5 Log Rule	"	"	6
	-2		Trailer Sun Rule	"	"	↓
	-3		Trailer Sun Photo Scale	"	"	↓
	57-0040-1-4		Graphs: Flight 101, March AFB, 22 March 1957	A. Boileau	"	4
	-5		Schematic: Fig. 1, 2, 3, 4	"	"	1
	-6		Schematic: Fig. 5, 6, 7	"	"	1
	-7		Schematic: Fig. 8, 9	"	"	1
	-8		Schematic: Fig. 10	"	"	1
	57-0041		Equation	J. Tyler	"	1
	57-0042		used for lecture work	A. Boileau	"	
	-1		Graph: Eye (Photopic) Response	"	"	1
	-2		Graph: Flight 107, 27 April 1957	"	"	1
	-3		4 Graphs	"	"	1
	-4		Graph: Phototube Response	"	"	1
	-5		Graph: Fig. 4. Wavelength vs Relative Response	"	"	1
	-6		Graph: Temperature Lapse Rate for Standard Atmosphere	"	"	1
	-7		Notation	"	"	1
	-8		Graph: Flight 101, 22 April 1957	"	"	1
	-9		Graph: Flight 79, 13 March 1956	"	"	1
	-10		Graph: Filter, Ideal Filter	"	"	1
	57-0043		Underwater Transmissometer, undershore inshore survey	S. Dintley	"	
	57-0044		Y Meter with new cap	A. Boileau	"	

## NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	57-0045-1-6		Charts and graphs used in class work	A. Boileau	4x5	6
	57-0046-1-4		Flight 104 -- graphs for class work	"	"	4
	-5		Graph: Flight 107, 118			1
	57-0047		Painting scheme, destroyer models	S. Duntley	"	
	57-0048		Belt Scanner	J. Harris	"	
	57-0049-1-7		Graphs: Normalized Signal to Noise Ratio. Fig.'s 1-7	J. Harris	"	1
	57-0050-1-3		Formulas: 1. Nadir Case	J. Tyler	"	1
			2. Zenith Case			1
			3.			1
	57-0051-1-2		Graphs: Lens Diameter vs RMS Ray Deviation	S. Duntley	"	2
	-3-4		Charts: Beam Decade Attenuation Distance	"	"	2
	-5		Chart: Optical Properties of Harbor Water	"	"	1
	-6		Diagram and formula	"	"	1
	57-0052		Photo: Missile Meter	S "	"	1
	57-0053-1-4		Radiance Profiles	J. Tyler	"	4
	57-0054-1-7		Schematics, for Meeting of Optical Society, Oct. 1957	S. Duntley	"	7
	57-0055-1-2		Charts and formulas for Meeting Oct. 1957	"	"	2
	57-0056		Belt Scanner for H Group (3)	S "	"	
	57-0057		Graphs for B-29 Airplane Program	"	"	1
	-1		Apparent Contrast Photopic	"	"	1
	-2		Radiance Red vs Altitude	"	"	1
	-3		Lz Attenuation Length Red	"	"	1
	-4		"	"	"	1
	-5		Apparent Contrast Red	"	"	1
	-6		Lz Attenuation Length Blue	"	"	1
	-7		Apparent Contrast Blue	"	"	1



## NEGATIVES


DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	58-0001		Coast Guard Flare. (Photos of small boat at dock.)	J. Taylor	4x5	
	58-0002		Lake Pond Oreilla; Underwater Photometer	J. Tyler	35 mm	
	* 58-0003-1		Bar Photometer	J. Rennilson	4x5	
	-2		Man working Bar Photometer	"	"	
	58-0004		Field Lense Test Equipment. It is inside on a long work table.	J. Harris	"	
	58-0005		Neg. taken from prints. Duntley has neg.	S. Duntley		
	58-0006-1-3		Photos: Inshore Survey Control Panel	"	"	
	H 58-0007-1		Graph: Field Angle in Degrees, Ramsden Eyepiece I	J. Rennilson	"	
	-2		Graph: Field Angle in Degrees, Ramsden III	"	"	
	* 58-0008-1		Copies of Photos in Manual pertaining to Manhigh II Balloon Ascension.	S. Duntley	"	6
			Graph: Central Daylight Time vs Altitude x 1000 Feet			
	-2		Map of flight -- launch to landing	"	"	
	-3		Photos of Major D.G. Simons in gondola during flight. <sup>3 neg.'s</sup>	"	"	
	-4		Schematic artist's drawing of man in gondola with instruments.	"	"	
	* 58-0009-1		Schematic: 3-4 Log Cycle; Photometer Chassis		"	
	-2		Schematic: 5 Log Cycle; "		"	
	58-0010		Equipment: Star Photometer, Dr. Taylor using it.	J. Taylor	"	
	* 58-0011-1		Graph: Horizon Sky Luminance before Sunrise.	S. Duntley	"	1
			Elevation of Path of Sight (Degrees)			
	-2		Graph: Horizon Sky Luminance Central Standard Time	"	"	1
	-3		Graph: Horizon Sky Luminance Elevation of Path of Sight	"	"	1

## NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	58-0012-1		Hook Discriminator. Portrait -- J. Harris	J. Harris	4x5	1
	-2		Portrait -- R. Ensminger	"	"	1
	-3		Portrait -- Torkelson	"	"	1
	-4		Portrait -- J. Harrity	"	"	1
	58-0013		Award from Vision Committee. Neg. was given to Dr. Ballard (his award)			
	58-0014		4 neg. Is. Copy. Dots and dots to form "M"	S. Duntley	4x5	2
	58-0015		Star Photometer. --NO NEGATIVE	J. Taylor		
	58-0016		--NO NEGATIVE. Chart	J. Remilson		
	58-0017-1		Graph: Relative Apparent Radiance Zenith Data of March 1957	J. Tyler	4x5	
	-2	<i>Labg Pend Oreille Lake</i>	Graph: Relative Apparent Radiance Zenith Data of 28 April 1957	"	"	
	-3		Graph: Relative Apparent Radiance Nadir Data of 16 March 1957	"	"	
	-4		Graph: Relative Apparent Radiance Nadir Data of 28 April 1957	"	"	
	-5		Graph: Comparison of Az. = 0 Tilt Sweeps at Various Depths	"	"	
*	-6		Map of Pend Oreille Lake; Soundings in Feet at Mean Winter Level	"	"	
	-7		"	"	"	
	-8		Diagram -- N, Z, $\theta$	"	"	
	58-0018-			Chart: Instrument Heading; The Sweep of Sun's Azimuth	"	"
	58-0019		Photo: Sun Photometer, Dr. Simon using it.	S. Duntley	"	
	58-0020		Recognizer, used for April 1958 Reports	"	"	



## NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	58-0021	FAC	Photo: Ozalid Machine, with Marita Cambell	J. Harris	4x5	
	58-0022		Splash Detector on Beach Location	"	"	
	58-0023		Chart: Relative Radiance	J. Tyler		/
	* 58-0024		Point Magu	S. Duntley	"	
	-1		Map: Trailer, Patrick AFB,; Flight Path 115° Azimuth	"	"	/
	-2		Schematic: parts -- Light from Projector, Mirror, Screen	"	"	/
	-3		Graph: Apparent Contrast, 20 x Telescope	"	"	/
	-4		Graph: Apparent Contrast, 20 X Telescope, Camera	"	"	/
	-5		Graph: Apparent Contrast, Camera	"	"	/
	-6		Sketch 	"	"	/
	58-0025	HOOK	Hook Lab and Display Equipment	J. Harris	"	
	-1-2	"	Man using equipment <i>Lynn Cardoza</i>	"	"	
	-3	"	Panel	"	"	
	58-0026-1			J. Tyler	"	/
	-2		Radiance Distribution, Lake Pond Oreille, <sup>State</sup> Depth 10.4 Meters	"	"	/
	-3		" " 16.58 "	"	"	/
	-4		" " 29,0 "	"	"	/
	-5		" " "	"	"	/
	-6		" " 53,7 "	"	"	/
	-7		Derivation of Water Constants from Physical Measure- ments	"	"	/
	58-0027-1		Graph: Adaptation Luminance: 1000 Foot Lamberts	S. Duntley	"	/
	-2		Graph: " 1 Foot Lambert	"	"	
	-3		Graph: " 10 Foot Lamberts, Fig. 3	"	"	
	-4		Graph: " 10 Foot Lamberts	"	"	
	-5		Graph: " 10 <sup>-1</sup> Foot Lamberts	"	"	

## NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	58-0027-6		Graph: Adaptation Luminance $10^{-2}$ Foot Lamberts	S. Duntley	4x5	
	-7		Graph: " $10^{-3}$ "	"	"	
	-8		Graph: " $10^{-4}$ "	"	"	
	-9		Graph: " $10^{-5}$ "	"	"	
	-10		Graph: " 100 "	"	"	
	-11		Graph: Apparent Reflectance of Wet Object. Fig. 16	"	"	
	-12		Graph: Solar and Lunar Altitudes	"	"	
	58-0028		Speech. <del>XXXXNEGATIVE</del> (24)	J. Taylor	35 mm	
	58-0029		Photo: Bob Saundberg working on some equipment. used in report	J. Harris	4x5	
	58-0030		Triangle and Circle Targets	"	"	
	58-0031		--NO NEGATIVE. Mr. Otto Windson	S. Duntley		
	58-0032-1-7		Photos: Spectra Spot Photometer used in Man-High III	A. Boileau	4x5	6
	58-0033		Photos: Mr. Otto Windson, wearing helmet, in circular niche. Pertains to Man-High III (3)	S. Duntley	"	
	58-0034		Photos: Water Clarity Meter -- shown inside in various stages of assembly, also on the dock being lowered into the water. (25)	"	"	6
	58-0035		Calibration of Spot Photometer	J. Taylor	"	
	58-0036		Sea State Simulator	S. Duntley	"	
	58-0037-1		Spot Photometer	J. Taylor	"	
	-2		Spot Photometer and Meter Unit	"	"	
	58-0038-1		Polargraph: Detection, Recognition; Flight Altitude 500 Feet.	S. Duntley	"	17
	-2		Polargraph: Detection, Recognition; Flight Altitude 40,000 Feet	"	"	↓



## NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
X	59-0001		Oceanographic material from Russian paper	J. Tyler	4x5	
	-1		Map: Southeast Asia and West Coast of U. S.	"	"	/
	-2		Fig. 1. Spectrophotometer diagram.	"	"	/
	-3		Diagram	"	"	/
	-4		Diagram	"	"	/
	-5		Photo: Ship	"	"	/
	-6		3 Graphs	"	"	/
	-7		Photo: Ship	"	"	/
	-8		Graph	"	"	/
	-9		Graph	"	"	/
	-10		2 Graphs	"	"	/
	59-0002		Water Clarity Meter Instruction Manual	R. Austin	"	
+	59-0003-1		Equipment -- Star Navigation Test Set-up	J. Taylor	"	
	-2		"	"	"	
	59-0004		Graph: Fig. 13.2. Irradiance as Function of Depths	S. Duntley	"	
	59-0005		Water Clarity for Instruction Manual			
	59-0006		Photo: Hwy. Strobe Lights (Electronic <i>blinker</i> light)	R. Ensminger	4x5	
	59-0007-1		Graph: Tilt Sweep in Sun's Azimuth Starts Here;	J. Tyler	"	/
			Instrument Heading; Barge Image; Barge Shadow;			
	-2		<i>Relative Radiance</i>	"	"	/
	-3		Graph: pertains to relative radiance. $\theta = 121.2^\circ$	"	"	/
	-4		Graph: " $\theta = 90^\circ$	"	"	/
	59-0008		Table: Illumination in Footcandles Corresponding to the Sun's Altitude	J. Gordon	"	
	59-0009		Telephotometer	J. Tyler	"	2
	59-0010		Water Clarity (Ship date Feb. 2, 1959)	R. Austin		

## NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION		REQUESTER	SIZE	
			1959	1959		NEGATIVE	SLIDE
	59-0011			Photo: Turbidity Meter	A. Boileau	4x5	
	59-0012			Small trucks, Assimilator Blackwell	J. Gordon	35 mm	
	59-0013-1			Photos: Ground Gonio	S. Duntley	4x5	
	-2			Photos: "	"	"	
	-3			Photos: Simulator Caps	"	"	
	-4			Photos: "	"	"	
	59-0014	Searchlight			S. Duntley J. Taylor	35 mm	
	59-0015			--NO.NEGATIVE-- Nomograph	S. Duntley		
	59-0016-1			Diagram: a)Plane Atmosphere	R. Preisendorfer	4x5	1
				b)Spherical Atmosphere	"		
	-2			Chart: Notation, Plane Atmosphere, Spherical Atmosphere,	"	"	1
				Figure 3			
	59-0017			Gonio Photometer, in with 59-0013	B. Austin S. Duntley		
	59-0018-1	Vis. Research		Parameters of the Visual Detection Lobe	J. Harris	4x5	1
	-2	"		Graph: Distance from Fixational Center vs Detection	"	"	1
				Range			
	-3	"		Graph: Detection Range vs Distance from Fixational	"	"	
				Center			
	-4	"		Graph: Range vs Altitude	"	"	
	59-0019			Mr. Martz has these negatives	E. Martz		3
	59-0020			Silhouette of planes. <u>No negative</u>	J. Gordon		
	59-0021			Optical Society 1959	S. Duntley	35 mm	
	59-0022			Flight 109 -- 6 May 1957 -- Patrick AFB	A. Boileau	4x5	13 total
	-1			Graph: Relative Humidity	"	"	1
	-2			Graph: Altitude - Thousand of Feet	"	"	1
	-3			Graph: Path Function	"	"	1

## NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
	59-0022-4		Graph: Path Function	A. Boileau	4x5	/
	-5		Graph: Microwave Refractive Modulus	"	"	/
	-6		Graph: Volume Scattering Function	"	"	/
	-7		Diagram: Sky Increment, Sun	"	"	/
	-8		"	"	"	/
	-9		Diagram: Phototube, Lens, Sunshade and Baffles, Black Glass Mirrors, Image of Aperture	"	"	/
	-10		Mathematical Formulas (6)	"	"	/
	59-0023		Colored negative masters	"		
	59-0024		Instruments used in Cloud Height Finder	E. Martz	"	
	-1		Control Box	"	"	/
	-2		Cloud Height Finder	"	"	/
	-3		"	"	"	/
	-4		Instrument Cupboard, inside	"	"	/
	-5		" , outside	"	"	/
	-6		Equipment outside of building	"	"	/
	-7		"	"	"	/
	-8		"	"	"	/
	-9		"	"	"	/
	-10		Control Box	"	"	/
	-11		"	"	"	/
	59-0025		Graphs	"	"	
	-1		Image Improvement with Elevation and Relative Cost of Elevated Stations	"	"	
	-2		Variation of Image Blurring and Heat Wave Height with Time of Day	"	"	

## NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
* 59-0025-3			Variation in the Photographic Diameter of Mars with Wavelength	E. Martz	4x5	
	-4		Variation of Optical Resolving Power with Exposure Time	"	"	
	-5		Image Improvement with Elevation and Relative Cost of Elevated Stations	"	"	
	-6		Variation of Photographic Resolving Power with Elevation of Telescope and Target	"	"	
	-7		Variation in Planetary Seeing with Sky Transparency	"	"	
	-8		Observed and Theoretical Resolving Powers	"	"	
/ 59-0026			Water Clarity Transmissometer -- parts shipped July 21, 1959	R. Austin	"	
59-0027			Chart: Optical Environment: Atmosphere -- Space	E. Martz	"	
59-0028			Chart for Worksheet. --NO NEGATIVE	J. Gordon		
59-0029			Mr. Martz. --NO NEGATIVE	E. Martz	8x10	
59-0030			Scope Pier	J. Harris	4x5	
59-0031			Nuclei Counter (small instruments on a table)	R. Johnson	"	
59-0032-1			Graph: 13 August 1958; Background Luminance Fig. 4	S. Duntley	"	/
	-2		Graph: 17 August 1958; Background Luminance; Fig. 5	"	"	/
59-0033			2 Destroyer Models; Destroyer Paint (2)	J. Gordon	"	
59-0034		Searchlight	Instruments and the light itself	S. Duntley	"	
59-0035-1			Chart: Local Interaction Principle; Some Results of Discrete Space Theory	R. Preisendorfer	4x5	/
	-2		Chart: Local Interaction Principle; Discrete Space	"	"	/
	-3		Chart: Local Interaction Principle; Infinite Inter-reflection Procedure	"	"	/
	-4		Chart: Local Interaction Principle; Local Interaction Procedure; Hence the Infinite Interreflection Procedure is Equivalent to the pair (a), (b)			/

## NEGATIVES

DATE	NEGATIVE NO.	PROJECT NO.	DESCRIPTION	REQUESTER	SIZE	
					NEGATIVE	SLIDE
K	59-0036	Searchlight	Neg. with 59-0034	R. Austin	4x5	
	59-0037		Photo: Spectra Brightness Spot Meter	E. Martz	"	
	59-0038-1-4		Photos: Jancie Meter (K Meter)	J. Tyler R. Austin	"	
	59-0039		Simulator Filter **NO NEGATIVE	J. Harris		
↓	59-0040-1		Galathea Report, Volume I; Primary Ocean Production	J. Tyler	"	
			Graphs: Fig. 9, 10, 11, 12. All deal with PHOTOSYNTHESIS			
	*2		Graph: Fig. 40. Light intensity and rate of gross production at the different depths.	"	"	
	59-0041-		Charts	J. Harris		
	59-0042		Airport. Martz has the neg.	E. Martz		
*	59-0043		Schematics: Wire Angles	J. Harris	4x5	
	-1		--says: Note: All Diodes are in 39A unless otherwise specified	"	"	
	-2		Front Chassis Layout Showing Signal and Control Positions	"	"	
	-3		Notes: All Resistors $\frac{1}{2}$ W, either 5 or 10 %, unless specified	"	"	
	-4		says: Notes - All Resistors $\frac{1}{2}$ W unless otherwise indicated.	"	"	
	-5		says: Notes - All Diodes 39A	"	"	
	-6		says: Connect to Chassis at this point only; IN, OUT	"	"	
	-7		says: Notes - All Diodes are IN39A	"	"	
	-8		says: 4 Terminal Barrier Strip on Back of Chassis	"	"	
	-9		Says: Rear View of 5ABP7 Showing Socket Orientation	"	"	
	-10		says: All Resistors $\frac{1}{2}$ W, 5% or 10% unless specified.	"	"	
	59-0044		Copies of article from Sky and Telescope magazine	E. Martz	"	
			1. the cover 2. Dust in the solar system 3. the aurora	"		3



