Вох	Folder	Flight # Date	Purpose	Pilot	Observer	Plane	Time	Location	Altitude (ft)	S	Student Part	ticipants	Additional Location	(some) Remarks	(some) Conclusions
JAV.416. 214.2	6	1933_01 04-10-1933	"X-C Roosevelt Field, L.I. to Boston Municipal Airport with photographic aiplane"	Lt. Phillips	n/a	F-71	n/a							"This airplane, a Fairchild 71 was chartered at Roosevelt for the purpose of instructing 20 students in the practical work of aerial photography"	"Airplane o.k."
JAV.416. 214.2	6	1933_02 04-15-1933	"Introductory Flight"	Lt. Phillips	Weld Arnold	F-71	1430-1600	Cambridge, Mass	2,000					3 flights of 4 students each made to familiarize them with rules of safety, procedure and conduct. Some students had never flown before.	not copied
JAV.416. 214.2	6	1933_03 04-16-1933	"Introductory Flights"	Lt. Phillips	Weld Arnold	F-71	1330-	Boston	600					"Same as flights of April 15 Only 1 flight made on account of very poor weather, and being Easter could only get one group of 4 students together."	i de la companya de
JAV.416. 214.2	6	1933_04 04-19-1933	"Instruction in (a) Obliques, (b) Pin points and (c) strip photography."	Lt. Phillips	Weld Arnold	F-71	1245-1745	1	1,000-600 & 4,500	Students			Boston "along new highway construction"	(1-3) not copied "(4) At 5:30 Weld Arnold took nine obliques over Boston at 4,000-2,000' with various speeds and a-2 filter, also some obliques at 2,000' into sun along new highway construction"	"(1) Mr. Holcombe gave best performance in the air."
JAV.416. 214.3	6	1933_05 04-20-1933	"Massachusetts Project"	Lt. Phillips	Weld Arnold	F-71	0935-1255	Strips #11 & 12	14,700					"(1) Flew stip #11 N> S & #12 S>N // (2) #11 poor. #12 good // (3) No oxygen and felt badly // (4) Think camera cut out on hole"	"(1) Have mount arms moved down a bit."
JAV.416. 214.2	6	1933 06 04-20-1933	"Instruction in (a) Obliques, (b) Pinpoints and (c) Strip photography."	Lt. Phillips	W. Arnold	F-71	1400-1700	Cambridge, Mass	1,000 & 4,500	Students			North bank of Charles	"(1) Took up 7 remaining students in 2 flights // (2) Took same obliques, pinpoints and strips as on April 19 // (3) Mr. Sears gave best performance in the air, so flew a strip down the N bank of the river at pilot's request"	n/a
JAV.416. 214.2		1933 07 04-21-1933	"Instruction in Mapping		W. Arnold	F-71		Framingham Quadrangle,	9,800	Students					"(1) Hole should be enlarged to allow camera to be lowered 2"-3" more"
JAV.416. 214.2	6	1933_08 04-23-1933	"Instruction in Mapping Photography"		Weld Arnold	F-71	0920-1600	Framingham Quadrangle, Mass.	9,800	Students				"(1) Camera hole reworked"	"(2) Camera hole o.k."
JAV.416. 214.2	6	1933 09 04-24-1933	"Massachusetts Project"	Lt. Phillips	Weld Arnold	F-71	0900-1510	Western Mass	14,700					(1-3) not copied "(4) Camera hole enlarged"	not copied
JAV.416. 214.2	6	1933_10 04-28-1933	"Massachusetts Project"	Lt. Phillips	Weld Arnold	F-71	0845-1635	Central Mass	14,700					not copied	"(1) Always use oxygen at this altitude if best work is desired."
JAV.416.		1022 11 04 20 1022	Ndooosahootto Dusioat	Lt Dhilling	)A/ald Awa ald	F 74	0045 4630	Eastern	14.700	David H.			Channel Daint		- /-
214.2 JAV.416.	6	1933_11   04-30-1933	"Massachusetts Project"	Lt. Phillips	Weld Arnold	F-/1	0845-1630	Eastern	14,700	Pabst			Strawberry Point Nantucket +	not copied	n/a
214.2	6	1933_12 05-04-1933		Lt. Phillips	Weld Arnold	F-71	0830-1630	Mass	14,700		<u> </u>		Barnstable	not copied	n/a
JAV.416. 214.2	6	1933_13 05-05-1933	"To secure misc. obliques & instruction in oblique & verticals"	Lt. Phillips	Weld Arnold	F-71	1315-1445	Cambridge, Mass	500-5,000	Miss Smith Mr.	. Birney	i i	Boston, Harvard U, Oak Ridge	not copied	not copied
JAV.416.			"Flight Test of Airplane,		Arnold, Phillips,				1,000 +						
214.2	11	1934_01 04-11-1934	Pilots and Camera"	Todd	Brooks, Snow	F-2W	0945-1045	"Boston"	5,000	Brooks Sno	ow				not copied
JAV.416.					Arnold,			"Boston +						"1. Made 6 flights of 4 students each" and 1	

Box	Folder	Flight #	Date	Purpose	Pilot	Observer	Plane	Time	Location	Altitude (ft)		Student	Participants		Additional Location	(some) Remarks	(some) Conclusions
UAV.416. 214.2	11	1934_03	04-14-1934	"Instruction in low obliques"	Ray Todd	Weld Arnold	NR 4616	0905-0928	"Boston harbor"	1,000 + 600	Sise				City Dump, Harbor Fort, Airport, Bunker Hill	"City Dump (1000), Harbor Fort (600), Airport (1000), Bunker Hill" // "Student Sise flown. 8 exposures made"	"Brooks on radio"
UAV.416. 214.2	11	1934_04	04-14-1934	"Instruction in low obliques"	Todd	Weld Arnold	NR 4616	1304-1347	"Boston harbor"	1,000 + 600	Merriam	Howell	Miller	Atwood	City Dump, Harbor Fort, Airport	"City Dump (1000), Harbor Fort (600), Airport (1000)" // "Merriam, Howell, Miller, Atwood in order named" (rest not copied)	"Brooks on radio" (rest not copied)
UAV.416. 214.2 UAV.416.			04-14-1934	"Instruction in low	Crocker Snow			1357-1425	"Boston	1,000	Allen	Walley	Hazeltine		City Dump, Harbor Fort, Airport City Dump, Harbor	"City Dump, Harbor Fort, Airport" // "Allen, Walley, Hazeltine, Emmons in order named" (from Failures in Air: "Hazeltine failed to snap trigger far enough to make exposure") (rest not copied)  "City Dump, Harbor Fort, Airport" // "Barnes, Rogers & Piper in order named." (Temperature and wind conditions not copied) "John Spinney went as assistant	"Brooks on radio" (rest not copied)
UAV.416. 214.2			04-14-1934	"Instruction in low	Crocker Snow  Ray Todd	Weld Arnold		1526-1549 0902-0938	"Boston harbor"	1,000	Ford	Rogers	Piper Gundlach	Spinney	City Dump, Harbor Fort, Airport	"City Dump (1000), Harbor Fort (600), Airport (1000)" // "Ford, Lang, Gundlack and Lagreze in order. Gundlach took fort at about 1000 feet before dump" (Temperature and wind conditions not copied)	"Brooks on radio" (rest not
UAV.416. 214.2				"Instruction in low obliques"	Ray Todd			0950-1030	"Boston harbor"			Little J.B.	Penrod	Smith	City Dump, Harbor Fort, Airport	"City Dump (1000), Harbor Fort (600), Airport (1000)" // "Sullivan, Little J.B., Penrod, Smith in order" (Temperature and wind conditions not copied)	"Brooks on radio" (rest not
UAV.416. 214.2	11	1934_09	04-15-1934	"Instruction in low obliques"	Ray Todd	Weld Arnold	NR 4616	1045-1132	"Boston harbor"		Little E.P.	Robinson	Hunt		City Dump, Harbor Fort, Airport	"Little E.P., Robinson, Hunt in order" "City Dump (1000), Harbor Fort (600), Airport (1000)" "Robinson took extra shot of Dollar Lines before airport" (Temperature and wind conditions not copied)	"Arnold shot remainder of roll over Cambridge & Boston. Little J.B. went as assistant observer. // Brooks on radio."
UAV.416. 214.2	11	1934 10	04-18-1934	"Test of Camera & Pilot Instruction"	Phillips (Snow	Arnold	NR 4616	0915-1100	"Boston + Vic"	1,500 + 5,000						not copied	n/a
UAV.416. 214.2				"Instruction in pinpoints &	Phillips		NR4616	0850-0943	"Bost -	5,000	Gundlach	Farnum	Lagreze	Ford	Airport, State House, Harvard Stadium, Cambridge	"Pinpoints of airport, state house, & Harvard stadium, strips of Cambridge. Gundlach + Farnum in the order named. Lagreze & Ford as assistant observers but took no pictures. Ray Todd as asst. Pilot to learn procedure of strip flying." (Temp and	n/a
UAV.416. 214.2	11	1934_12		"Instruction in pinpoints & vertical strip"	Crocker Snow	Weld Arnold	NR4616	0948-1113	"Bost - Camb"	5,000	Lagreze	Ford	Atwood	Lang	Airport, State House, Harvard Stadium, Cambridge	"Pinpoints of airport, state house, & Harvard stadium. Strips of Cambridge. Lagreze, Ford, Atwood & Lang in order named" (Temp and wind not copied)	n/a
UAV.416. 214.2	11	1934_13		"Instruction in pinpoints & vertical strip"	Crocker Snow	Weld Arnold	NR4616	1226-1330	"Bost - Camb"	5,000	Allen	Merriam	Dorsey		Airport, State House, Harvard Stadium, Cambridge	"Allen, Merriam, Dorsey in order named. Pinpoints of airport, state house, & Harvard stadium. Strips of Cambridge." (Temp and wind not copied)	"Brooks on radio"

ox F	older	Flight #	Date	Purpose	Pilot	Observer	Plane	Time	Location	Altitude (ft)		Student	Participants		Additional Location	(some) Remarks	(some) Conclusions
JAV.416. 14.2	11	1934_14	04-19-1934	"Instruction in pinpoints & vertical strip"		v Weld Arnold	NR4616	1347-1522	"Bost - Camb"	5,000	Emmons	Miller	Walley	Howell	Airport, State House, Harvard Stadium	"Pinpoints of airport state hourse, Harvard Stadium. Emmons, Miller, Walley & Howell in order mentioned." (Temp and wind not copied)	"Brooks on radio. 5th flight called off by radio."
JAV.416. 14.2	11	1934_15	04-21-1934	"Instruction in pinpoints & vertical strip"	Ray Todd	Weld Arnold	NR4616	0848-0950	"Bost - Camb"	5,000	Naughten	Sise	Robinson		Airport, State House, Harvard Stadium, Cambridge	"Naughten, Sise & Robinson in order named. Airport, State House, & Stadium. Strip over Cambridge." (Temp and wind not copied)	n/a
JAV.416. 14.2	11	1024 16	04-21-1934	"Photographs of Newburyport for Professor"	Phillips	Arnold	NR4616	1010-1055	"Bost Newburypor	10,000						not copied	not copied
JAV.416.			04-22-1934	"Instruction in pinpoints &		Weld Arnold		0852-1023	"Boston	5,000	Smith	Piper	Little J.B.	Little E.P.	Winthrop, Long Island, Deer Island	"Smith, Piper, Little J.B., Little E.P. in order named. Smith water tower in Winthrop, (square drawn) lake on Deer Island, (circle drawn) pond on Long Island, strip of Deer Island + Winthrop ends in clouds" (rest not copied)	inot copied
JAV.416.				"Instruction in pinpoints &					"Boston & Hull Cohasset"	5,000	Hunt	Rogers	Hazeltine		Cohasset Harbor, strip Nantasket inlet to Cohasset	"Hunt, Rogers, Hazeltine + Sullivan in order named." (rest not copied)	
JAV.416.		1331_10	0 1 22 133 1	"Instruction in 5-lens	nay roud			101111200	"Framingha	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		11108010				lanca (i.est iiet copies)	
14.2	11	1934_19	04-24-1934	picture taking"	Ray Todd	Weld Arnold	NR4616	1307-1352	_	(scratched)	Lagreze	Ford	Gundlach	Lang	no pictures taken	not copied	n/a
JAV.416. 14.2				"Instruction in 5 lens picture taking"	Ray Todd	Weld Arnold		0917-1125	"Framingha	9,800	Dorsey	Little E.P.	Robinson			not copied	n/a
JAV.416.	11	1024 21	04.25.4024	"Single-lens verticals for Professor Warner over Newburyport & for district Engineer over Scituate & for Prof. Haartlein over		Wold Arnold	ND4616	1152 1227	"Newburypo rt, Scituate,	10,000 +						not copied	n/a
14.2 JAV.416.	11	1934_21	04-25-1934	South Station." "Instruction in 5 lens	Phillips	Weld Arnold	NR4616	1152-1337	Bost." "Framingha	5,000				Ford and		not copied	n/a
	11	1934 22	04-25-1934		Ray Todd	Weld Arnold	NR4616	1402-1625	_	9,800	Emmons	Barnes	Howell	Hunt		not copied	n/a
JAV.416.				"Single-lens verticals of Plymouth Harbor for district engineer at 10,000 + Kirk Bryan of Barnstable					"Plymouth + Barnstable"	10,000 +						not copied	not copied
JAV.416.				"Instruction in 5 lens													
	11	1934_24	04-26-1934	picture taking"	n/a	n/a	n/a	0918-1050	n/a	10,000	Atwood	Allen	Miller	Rogers		not copied	n/a
JAV.416.	11	1024 25	04.26.1024	"Instruction in 5 lens	Cunnellan Cunnel	Wold Arnold	ND4616	1202 1250	Framingham	10.000	Dakor	Dinor	Cmi+h	Hazaltina		"Dakar Dinar Smith Hazaltina in ship"	n /o
JAV.416.				"Photographs for U.S. Dist. Engr. Mr Brooks and Kirk			Fairchild 51		Plymouth coast line East of Cape Cod Canal	10,000 -	Baker	Piper	Smith	Hazeltine		"Baker, Piper, Smith, Hazeltine in ship"  not copied	n/a n/a
JAV.416. 14.2	11	1934_27	04-28-1934	"Student Instruction in 5- len picture taking at 10,000 over Framingham quadrangle"	Ray Todd	Weld Arnold	NR4616	1303-1450	Framingham quad	10,000	Lagreze	Farnum	Sise	Gundlach, Sullivan		not copied	n/a

Вох	Folder	Flight # Date	Purpose	Pilot	Observer	Plane	Time	Location	Altitude (ft)		Student I	Participant	S	Additional Location	(some) Remarks	(some) Conclusions
			"Student Instruction in 5- len picture taking at													
UAV.416. 214.2	11	1934_28 04-28-1934	10,000 over Framingham quadrangle"	Ray Todd	Weld Arnold	NR4616	1523-1655	Framingham	9.000	Merriam	Hazeltine	Penrod	Little J.B.		not copied	n/a
UAV.416. 214.2		1934_29 04-29-1934	"Student Instruction in 5- len picture taking at 10,000 over Framingham	Ray Todd			0753-0930			Lang		Smith	Walley		not copied	n/a
UAV.416.			"Single-lens verticals of Pollock Rip Slip Channel and Nantucker Harbor entrance for District Engineer. Repeat Cape Cod					Nantucket,								
214.2	11	1934_30 04-29-1934	Canal approach."	Joe Burnet	Weld Arnold	NR4616	n/a	Pollock Rip	10,000						not copied	n/a
UAV.416. 214.2	11	1934_31 04-29-1934	"Dr. Raisz' Cape Cod proj. 5 lens at 10,000 (#3->#6)+7 Cape Cod Canal Buzzards Bay approach + canal single lens"	Crocker Snow	Weld Arnold	NR4616	1014-1343	Cape Cod	10,000						not copied	n/a
UAV.416.			"5 lens photographs (A, B + C only) on Cape Cod project #1 & #2. Also Sourt sta. + yards, Oak Ridge +					"Cape Cod, Boston + Town of	10,000 +							
214.2	11	1934_32 04-30-1934		Ray Todd	Weld Arnold	NR4616	0811-1100	Harvard"	5,000						not copied	n/a
UAV.416. 214.2	11	1934_33 05-01-1934	"Greater Boston area proj. 5-lens"	Phillips	Weld Arnold	NR4616	1125-1335	"Boston"	10,000					Stadium, Library, Institute (HUIGE)	not copied	n/a
UAV.416. 214.2			"Single lens verticals of Cambridge and high					"Boston + Mass, coast"	6,000 + 15,000-							n/a
UAV.416. 214.2	11	1934_35 05-10-1934	"Verticals at 5000 and low obliques at 600"	Ray Todd	Weld Arnold	NR4616	1347-1620	"Newport R.I."	5,000 + 600						"Verts at 5,000 for mosaic of Paradise- Purgatory section, sheep point, Fort Walcott + Newport. Then, obliques from 600-1000 feet of Rose Island, Gooseberry Is., bailey Beach and house along Bellevue Avenue."	n/a
			"Verticals - Eel River //												"Verticals = Eel River // Obliques = Cordage	
UAV.416.	4.4	1005 04 /	Obliques - Plymouth	D T 11	Arnold +	1102225	0000 4400	"See	4 000						Plant - Plymouth // Plymouth Monument //	i
214.2	14	1935_01 n/a	Cohasset"	Ray Todd	Whitman	NC222E	0900-1100	Remarks"	1,800 15,000 &						Cohasset."	n/a
UAV.416.								"Boston &	10,000 &							
214.2	14	1935_02 n/a	"High Altitude Flight"	Ray Todd	Whitman	NC222E	about 1300								not copied	n/a
UAV.416. 214.2	14	1935_03 n/a	"Verticals (Large Scale) of Cambridge)	Ray Todd	Whitman	NC222E	n/a	"Cambridge'	1,800						"Obliques - Medical School (H.U.) Boston // Hangars, Boston Airport // Downtown Boston - Gen'L // M.I.T. & School of Geo" (not all copied)	"Reply Cambridge Project at 3000!"
UAV.416.	4.6	1025 04 02 64 125	"To photograph Harbor +	DT 1.1	Arnold,	NG3335	- 1-	"D=c+=""	F 000							
214.2	14	1935_04 03-14-1935	Channel"	Ray Todd	Whitman	NC222E	n/a	"Boston"	5,000						not copied	not copied
UAV.416. 214.2	14	1935_05 03-18-1935	"Student Instruction in Low Alt. Obliques 1st Student Flight"		Arnold	Bellanca 222E	0844-0924	"Boston"	700-800	Fox	LaBoiteaux	Roach	Wentworth	Winthrop Watertower, Ft. Strong, Immigration Station, Governor Island fort		n/a
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Вох	Folder	Flight # Date	Purpose	Pilot	Observer	Plane	Time	Location	Altitude (ft)		Student	Participants	S	Additional Location	(some) Remarks	(some) Conclusions
UAV.416. 214.2	14	1935_06 03-18-1935	"To secure obliques Vicinity of Boston and Cambridge"	Ray Todd	Arnold & Whitman	Bellanca 222E	1017-1109	"Boston"	1,000-2,000					Downtown Boston, Cambridge, MIT, Lighthouse, Navy Yard	"Downtown Boston, Cambridge, MIT, Lighthouse, Navy Yard"	n/a
UAV.416. 214.2	14	1935_07 03-18-1935	"Student instruction in low altitude obliques"	Ray Todd	Weld Arnold	NC222E	1240-1320	"Boston harbor"	750	Bartol	Starr	Scheffy	Marsh	Winthrop Watertower, Immigration Station, Governor Is. fort	not copied	n/a
UAV.416. 214.2		1935_08 03-20-1935	"High Altitude Photographs Cambridge,	Lr. Todd	Lt. Talley	Bellanca	1230-1400 a		23,400						not copied	n/a
UAV.416. 214.2	14	1935_09 03-21-1935		Ray Todd	Arnold	NC222E	1000-	"Boston"	750	Purcell	Forster	Jarrell	Rudd		not copied	n/a
UAV.416. 214.2	1.1	1935_10 03-21-1935	"Low altitude - obliques	Ray Todd	Arnold	NC222E	1200-	"Boston"	750	Forbes	Berry	Hastings	Martin		not copied	n/a
UAV.416.	14	1933_10 03-21-1933	"To photograph Eel River	nay Touu	Whitman and		1200-	"Plymouth		rorbes	Вену	ilastiligs	IVIAI LIII		not copied	11/ a
214.2	14	1935_11 03-22-1935		Ray Todd	Arnold	NC222E	1147-1308		1,000						not copied	n/a
UAV.416. 214.2	14	1935_12 03-24-1935	"To complete projects on hand (see Remarks)"	Ray Todd	Arnold & Whitman	NC222E	1245-1513	"See Remarks"	500 - 4,000					Eel River (Verticals), E. Woburn Quarry (Verticals), Lawrence (Verticals) and Rockport & Twin Lights (Obliques) & Gloucester, Lynn CGE & Gas Plant (Obliques), Waverly & MET Statehosp. & Tuberculosis Hosp. (Obliques), Misc. Cambridge & Boston  Meridian, Conn, (Quarry); North Bradford, Conn. (Quarry); Todd Mansion (Obliques); Oak Ridge (Obliques); Dr. Richard's House (Obliques); Medical		n/a
			U 1					ll c						School (Obliques);		
UAV.416. 214.2	14	1935_13 03-25-1935	"To complete projects on hand"	Ray Todd	Arnold & Whitman	NC222E	1016-1337	"See Remarks"	700 to 1,400					Airport Hangars (Obliques)"	not copied	not copied
UAV.416. 214.2			"To secure Verticals and obliques with large scale"		Arnold - Whitman	Bellanca 222E	1245-1513		n/a					Eel River, E. Woburn Quarry, Lawrence (Verticals) and Rockport (twin lights), Lynn (Gen'l Elec.),	not copied	n/a
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Вох	Folder	Flight #	Date	Purpose	Pilot	Observer	Plane	Time	Location	Altitude (ft)		Student I	Participants		Additional Location	(some) Remarks	(some) Conclusions
				"Student instruction in										İ			
				single lens pinpoints and											Airport circle, customs		
UAV.416.				strips at 5,000 feet with			Bellanca								house & south station		
214.2	14	1935_15	04-15-1935	single lens camera"	Ray Todd	Arnold	222E	1000-1122	"Boston"	5,000	Bartol	Fox	LaBoiteaux		"for pinpoints"	not copied	n/a
				"Ctudent instruction in											Airport circle quetame		
				"Student instruction in single lens pinpoints and											Airport circle, customs house & south station		
UAV.416.				strips at 5,000 with single							Wentwor				"for pinpoints" +		
214.2	14	1935 16	04-26-1935	· · ·	Ray Todd	Weld Arnold	NR-148-H	0833-0934	"Boston"	5,000	th	Roach	Berry		' '	not copied	n/a
				"Student instruction in						,							
				single lens pinpoints and											Airport circle, customs		
UAV.416.				strips with single lens											house & south station		
214.2	14	1935_17	04-26-1935	camera at 5,000"	Ray Todd	Weld Arnold	NR-148-H	1048-1141	"Boston"	5,000	Hastings	Scheffey	Marsh		"for pinpoints"	not copied	n/a
UAV.416.				"To test T-3A Camera (Elec.		Whitman -			"Boston +								
214.2	14	1935_18	04-26-1935	Shutters)"	Ray Todd	Arnold	n/a	1213-1255	Vic"	9,850						not copied	not copied
															no pictures but, from		
															"Failures in Air": "Filter		
															became covered with		
				"Student instruction in											cinders at take off due		
				single lens pinpoints and											to illness on 2nd		
UAV.416.	4.4	1025 10	04.26.4025	strips with single lens	D Tl.l	Malel America	ND 440 H	4227 4454	"D = at = a "	F 000	Chaus	Caubaa	Factor		student flight. So no		n /a
214.2	14	1935_19	04-26-1935	camera at 5,000"	Ray Todd	Weld Arnold	NK-148-H	1337-1451	Boston	5,000	Starr	Forbes	Foster		pictures."	not copied	n/a
				lice to the second											Airport circle, customs		
UAV.416.				"Student instruction in											house & south station "for pinpoints" +		
214.2	14	1935 20	N4-27-1935	single lens pinpoints and strips at 5,000"	Ray Todd	Weld Arnold	NR-148-H	1059-1213	"Boston"	5,000	Rudd	Forster	Martin	Jarrell		not copied	n/a
		1333_20			nay road			1033 1213		5,000							
				"Student instruction in											Airport circle, customs		
UAV.416.				single lens pinpoints and											house & south station		
214.2	14	1935_21			Ray Todd	Weld Arnold	NR-148-H	1238-1322	n/a	5,000	Purcell	Starr				not copied	n/a
UAV.416.				"Student instruction in 5-													
214.2	14	1935_22	04-27-1935	lens work"	Ray Todd	Weld Arnold	NR-148-H	1405-1553	"Plymouth"	10,000	Scheffey	Marsh	Forster	Perry		not copied	not copied
UAV.416.				"Student instruction in 5-													
214.2	14	1935_23	04-29-1935	lens work"	Ray Todd	Weld Arnold	NR-148-H	0753-0911	"Plymouth"	10,000	Fox	LaBoiteaux				not copied	not copied
				"Student instruction in											Airport circle, customs		
UAV.416.	1.4	1025 24		single lens pinpoints and	Day Tarlel	Mold Amada	ND 140 II	1025 4402	"Doctors"	F 000	Corbos				house & south station	not conicd	n/a
214.2	14	1935_24	04-29-1935		Ray Todd	Weld Arnold	NK-148-H	1035-1103	ROSTON	5,000	Forbes				"for pinpoints"	not copied	n/a
UAV.416. 214.2	1/1	1025 25	04-20 1025	"Student instruction in 5-	Ray Todd	Weld Arnold	NR-1/10 L	122/ 125/	"Duyhun"	10,000	Starr	Martin	Forbes			not conied	n/a
UAV.416.	14	1935_25	04-29-1935	"Student instruction in 5-	Ray Todd	vveid Al IIOId	INU-149-∐	1224-1354	"Duxbury +	10,000	Stall	ivial (III	Wentwort			not copied	ιιγ α
214.2	14	1935 26	04-29-1935		Ray Todd	Weld Arnold	NR-148-H	1408-1517		10,000	Purcell	Roach	h			not copied	n/a
_ + 114		1333_20	1333		, 1000	. reid rittloid	170 11	_ 100 1017			, arocii					]	İ
																"Following Photos Taken: Cape Ann from W Side, Newbury Port from W-Side, Shore line	
																S. to Cape Ann, Portsmouth E-Side,	
																Newbury Port & Harbor E-Side Gen'L coast	
UAV.416.				"Miscellaneous Obliques					"North	8,500 to					Newbury port, Cape	views E- Side, Newbury Port S-Side & Gen'l	
214.2	14	1935_27	05-09-1935	· ·	Ray Todd	Whitman	NR-148-H	1000-1111	Shore"	5,000					Ann	Lynn from E. Side"	n/a
UAV.416.				"Coast Project - Advance					"Portsmouth	i					"Flight not		
214.2	14	1935_28	05-09-1935	Students"	Ray Todd	Whitman	NR-148-H	1000-1111	, N.H."	8,500					accomplished"	"Flight not accomplished"	n/a

Box	Folder	Flight #	Date	Purpose	Pilot	Observer	Plane	Time	Location	Altitude (ft)		Student F	Participants	Additional Location	(some) Remarks	(some) Conclusions
UAV.416.				"Large Verticals of												
214.2	14	1935_29	05-09-1935	Cambridge"	Ray Todd	Whitman	NR-148-H	1129-1506	"Cambridge"	3,000					not copied	n/a
UAV.416. 214.2	14	1935_30	05-11-1935	"Coastal Survey // Portsmouth, N.H Portland, ME"	Ray Todd	Rogers + Emmons	NR-148-H	0917-1135	"Portsmouth	10,000 (9,800)	Rogers	Emmons		Exeter NH, Berwick NH, Rye NH,	"Order of Operations: Rogers - strip: Exeter, N.H. to Berwick N.H. So. To No. // Interval 25 sec. Crab = 15 ° E.// Emmons - Strip: Rye N.H. to Webhannet, N-H and Isle of Shoals. Interval 30 sec. Crab 13°E." (rest not copied)	n/a
UAV.416.									"Duxbury &							
214.2	14	1935_31	05-11-1935	"Duxbury Quad (36b)"	Ray Todd	Jarrell	NR-148-H	1345-1430	Vic."	8,000	Jarrell				not copied	n/a
UAV.416. 214.2	14	1935_32	05-11-1935	"Obliques mission"	Ray Todd	Whitman	NR-148-H	1459-1600	"Boston & Vic."	1,000				Airport (E. Boston), S. Boston, School of Geography, Business School + Eliot, Arlington, M.I.T., Crew Race, Airport.	"Photos taken: Airport (E. Boston), S. Boston, School of Geography, Business School + Eliot, Arlington, M.I.T., Crew Race, Airport"	n/a
UAV.416. 214.2	14	1025 22	05-12-1935	"Portland Strip // Duxbury	Ray Todd	Atwood	ND 140 LI	1144-1435	"Duxbury & Vic."	10,000 (9,900)				Cape Cod, Great Bay, Newbury Port, General Marblehead, Nahant, Duxbury Quad, Plymouth Harbor, Cape Cod Canal,	"So. Side Cape Ann, No. Side Cape Ann, Essex Harbor, Shoreline & Plum Island, Plum Island, Cape Ann - Cape Cod, Great Bay, Newbury Port, General. Marblehead, Nahant, Cape Ann + N. Shore. Proceeded So. To Duxbury Quad. Strip N. to S. (See flight map) Interval 20 sec. crab 18 (Deg) E. // Obliques: Plymouth Harbor, Cape Cod Canal, Martha Mills Airport, C.C., Provincetown" (not all copied)	n/a
214.2	14	1935_33	05-12-1955		nay rouu	Atwood	INIV-140-11	1144-1433	VIC.	(3,300)				 Provincetown.	riovincetown (not an copied)	11/a
UAV.416. 214.2	14	1935_34	05-13-1935	"Coastal Survey // Kennebunk River to Portland"	Ray Todd	Whitman	NR-148-H	1014-1136	"Portsmouth , N.H."	8,500					not copied	n/a
UAV.416. 214.2	14	1935_35	05-15-1935	"Coastal Survey // Webhannet ME - Portland Cape Elizabeth"	Ray Todd	Atwood, HEW	NR-148-H	0850-1250	"Portland, ME"	10,000					"1st strip - Webhannet - Biddeford // 2nd strip - Cape Elizabeth // 3rd strip - Point N. Portland - Point app. Scarbors River // 4th strip - Cape Porpoise and Fletchers Neck" (not all copied)	n/a
UAV.416. 214.2	14	1935_36	05-15-1935	"Coastal Survey // Portsmouth, N.H Portland, ME"	Ray Todd	Atwood, HEW	NR-148-H	1455-1702	"Cape Porpoise"	10,000				Biddeford, Scarborough River,	"1st strip - Cape Porpoise and Fletcher Neck // 2nd strip - Biddeford to point app. Mouth of Scarbor. river // 3rd strip - Portsmouth N.H. to about So. Line or area // (Note: This is a re-photo to fill in on account of clouds on previous flight.)" (not all copied)	
UAV.416. 214.2	14	1935_37	05-16-1935	"Geography 36-B Student instruction flight Abington (?)"	Ray Todd	Bartol - Rudd - H.E.W.	NR-148-H	0911-1122	n/a	10,000	Bartol, Rudd			North Silver Lake, Scituate Harbor, Rockland to Robbins Lake, Long Lake	not copied	n/a
UAV.416.				"Verticals of Eel River and					"See					Eel River, Long Lake, Cambridge Business school to Jarvis St.,		
214.2	14	1935_38	05-16-1935	Cambridge"	Ray Todd	Whitman	NR-148-H	1510-1656	Purpose"	6,000				Boston Airport	not copied	n/a

Вох	Folder	Flight #	Date	Purpose	Pilot	Observer	Plane	Time	Location	Altitude (ft)		Student	Participants	Additional Location	(some) Remarks	(some) Conclusions
UAV.416. 214.2	22		04-25-1936	"Student instruction - Vertical Strips"	Sutherland	Whitman	NC145H	0850-0910	"Boston"	2,000	Green	Howe		"No photography"	not copied	n/a
UAV.416. 214.2	22		04-25-1936	"To secure photographs Alton Bay region"	Sutherland	Whitman	NC145H	0920-1145	"Alton Bay, N.H."	14,300				Lake Winnapasaukee to Mt. Washingtion (among others)	not copied	n/a
UAV.416. 214.2	22		04-26-1936	"Student Instruction in Vertical Strips"	Sutherland	Whitman	NC145H	0900-1215	"Webster, Mass"	10,500	Howard	Green	Spinney		not copied	n/a
UAV.416. 214.2	22		05-01-1936	"T-1A Strips, Student Instruction"	Sutherland	Whitman	NC145H	1250-1330	"Cape Ann"	5,000	Howard	Green			not copied	n/a
UAV.416. 214.2	22			"To secure Oblique Photographs of Boston from Savin Hill."	Sutherland	Whitman	NC145H	n/a	"Boston"	1,500	Howard	Green	Spinney		not copied	n/a
UAV.416. 214.2	22		05-02-1936	"Student Instruction with T 3A Vertical Strips"	Sutherland	Whitman	NC145H	0915-1320	"Cape Ann"	10,100	Howard	Green	Spinney	Salem quad., Lawrence quad, Gloucester	not copied	n/a