Location	Additional Information About Location/ Special Notes	Attendees	Date	Mission Training	Source(s)	Photo #
			1963			
Meteor Crater, Flagstaff, Arizona		Armstrong Borman Conrad Lovell McDivitt See Stafford White Young	January 1963	Gemini	Wilhelms, Don. E. <u>To a Rocky Moon: A Geologist's History of Lunar Exploration.</u> Tucsor University of Arizona Press, 1993, p. 76.; <u>Astronaut Fact Book.</u> July 2003. Access date: 6-8-04 http://www.spaceflight.nasa.gov/spacenews/facsheets/pdfs/astro.pdf .	
			1964			
Grand Canyon, Arizona		Aldrin Anders Armstrong Bassett Bean Carpenter Cernan Chaffee M. Collins Cunningham Eisele Freeman Gordon Schweickart D. Scott See Shepard C. Williams	March 5-6, 1964		Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucsor University of Arizona Press, 1993, p. 79.; Phinney, William. "Science Training History of th Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	
Grand Canyon, Arizona		Borman Conrad Cooper Grissom Lovell McDivitt Schirra Slayton Stafford Young	March 12-13, 1964		Wilhelms, Don. E. <u>To a Rocky Moon: A Geologist's History of Lunar Exploration.</u> Tucsor University of Arizona Press, 1993, p. 79.; Phinney, William. "Science Training History of th Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	

Big Bend National Park, West Texas	Marathon Basin	Aldrin Anders Bassett Bean Berman Cernan Chaffee Collins Cunningham Cooper Eisele Freeman Gordon Schweikart Scott Shepard Williams Young	April 2-3, 1964		Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 79.; Apollo Astronaut Field Trips, 008973, "MSC Roundup 15 April 1964," Headquarters Historical Reference Collection, Washington DC.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	
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Big Bend National Park, West Texas	Marathon Basin	Armstrong Carpenter Conrad Lovell McDivitt Schirra See Stafford White	April 15-16, 1964	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> <u>Geologist's History of Lunar Exploration.</u> Tucson: University of Arizona Press, 1993, p. 79.; Apollo Astronaut Field Trips, 008973, "MSC Roundup 15 April 1964, pg 7, ; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.
Kitts Peak National Observatory, near Tucson, Arizona	Sunset Crater near Flagstaff	Aldrin Anders Bassett Bean Borman Cernan Chaffee Collins Cunningham Eisele Freeman Gordon Lovell? McDivitt Schweickart Scott See Williams	April 30-May 2, 1964	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration, Tucson: University of Arizona Press, 1993, p. 79.;Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E. 64-Astro Train238 64-Astro Train247 64-Astro Train247 64-Astro Train247 64-Astro Train248 64-Astro Train237 64-Astro Train247 64-Astro Train248 64-Astro Train237 64-Astro Train247 64-Astro Train248 64-Astro Train237 64-Astro Train237 64-Astro Train247 64-Astro Train248 64-Astro Train237 64-Astro Train248 64-Astro Train237 64-Astro Train248 64-Astro Train247 64-Astro Train248 64-Astro Train247 64-Astro Train248 64-Astro Train248 64-Astro Train247 64-Astro Train247 64-Astro Train248 64-Astro Train247 64-Astro Train248 64-Astro Train247 64-Astro Train248 64-Astro Train247 64-Astro Train248 64-Astro T
Sunset Crater near Flagstaff, Arizona	Kitt Peak National Observatory, near Tucson	Armstrong Cooper Shepard Schirra Young and others	May 20-22, 1964	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> <u>Geologist's History of Lunar Exploration.</u> Tucson: University of Arizona Press, 1993, p. 79.; Apollo Astronaut Field Trips File 008973; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.

Cimarron, New Mexico	Philmont Boy Scout Ranch	Aldrin Anders Armstrong Bassett Bean Cernan Chaffee Collins Conrad Cooper Cunningham Eisele Freeman Gordon Lovell Schweikart Scott See White Williams	June 3-6, 1964	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 80.; Apollo Astronaut Field Trips File 008973; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.
Bend, Oregon		Cunningham	August 27-29, 1964	New York Times 30 Aug 1964, Apollo Astronaut Field Trips, File 008973; Beattie, Donald A. Taking Science to the Moon. Baltimore: Johns Hopkins University Press, 2001, pg. 161-162.
Bend, Oregon	Astronauts visited volcanic terrain in Bend, including Newberry Crater.	Cernan Chaffee Collins Schweikart Scott	October 7-9, 1964	The Sunday Oregonian 4 Oct 1964 Apollo Astronaut Field Trips File 008973; Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 103.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.

Bend, Oregon	The third trip to Bend, Oregon was cancelled due to the death of Freeman in an airplane crash.	Aldrin Armstrong Bassett Bean Cunningham See Williams	October 15-17, 1964	The Sunday Oregonian 4 Oct 1964 Apollo Astronaut Field Trips File 008973; Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 103.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.
Jemez Mountains, New Mexico	Astronauts visited Valles caldera.	Aldrin Anders Bean Chaffee Collins Freeman Williams	October 23-25, 1964	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 103.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.
Jemez Mountains, New Mexico	Astronauts visited Valles caldera.	Armstrong Bassett Cernan Cunningham Gordon Scott See	October 29-31, 1964	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> <u>Geologist's History of Lunar Exploration.</u> Tucson: University of Arizona Press, 1993, p. 103.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.

Jemez Mountains, New Mexico	Astronauts visited Valles caldera.	Eisele Schweikart	November 13-14, 1964	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> <u>Geologist's History of Lunar Exploration.</u> Tucson: University of Arizona Press, 1993, p. 103.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.
			1965	
Volcano National Park, "Big Island", Hawaii	Astronauts visited Halemaumau Crater.	Aldrin Anders Armstrong Bassett Bean Chaffee Collins Conrad Cunningham Eisele Gordon Schweikart Scott See Williams	January 19-24, 1965	Houston Post 14 Jan 1965, Apollo Astronaut Field Trips, 008973, "Space Daily Jan 18, 1965," NASA Headquarters Historical Reference Collection, Washington, DC.; Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 103.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.
Nevada Test Site, Nevada	The site is located near Las Vegas. Astronauts visited Timber Mountain caldera.	Aldrin Anders Armstrong Bassett Bean Cernan Collins	February 17-18, 1965	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 104. Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.
Nevada Test Site, Nevada	The site is located near Las Vegas. Astronauts visited Timber Mountain caldera.	Cunningham Eisele Gordon Schweikart Scott	February 24-25, 1965	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.

Nevada Test Site, Nevada	The site is located near Las Vegas. Astronauts visited Timber Mountain caldera.	Chaffee See	March 3-4, 1965	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	
Meteor Crater, Arizona		Anders Bassett Cernan Chaffee Collins Gordon Schweikart Scott Williams	April 22-23, 1965	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	
Katmai Peninsula, Katmai National Monument, Alaska	The astronauts visited the Valley of Ten Thousand Smokes.	Aldrin Anders Bassett Bean Cernan Chaffee Cunningham Schweickart Scott Williams	June 29-July 2, 1965	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p.112.; Apollo Astronaut Field Trips, 008973, "JSC Space News Roundup," NASA Headquarters Historical Reference Collection, Washington, DC.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	65-H-1212 65-H-1224

Grisuvik, Iceland	The astronauts visited Grendevil (southwestern Iceland), and Grisuvik, Central Iceland (near the Askja Caldera).	Anders Bassett Bean Cernan Chaffee Cunningham Eisele Schweickart Scott Williams	July 12-16, 1965	Space News Roundup," NASA Headquarters Historical Reference Collection, Washington, DC.; Wilhelms, Don. E. <u>To a Rocky Moon: A Geologist's History of Lunar Exploration</u> . Tucson: University of Arizona Press, 1993, p. 113.;	65-E-1364 65-H-1366 65-HC-696 65-HC-698 65-HC-700 65-H-1364 65-H-1365
Medicine Lake Highlands, California		Anders Bean Schweickart	September 1-3, 1965	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 121.; Beattie, Donald A. Taking Science to the Moon. Baltimore: Johns Hopkins University Press, 2001, pg. 171-173.	
Medicine Lake Highlands, California	The astronauts left September 8, 1965 so that they could return before an approaching hurricane. Cernan was unable to attend due to the hurricane.	Bassett Cunningham Williams	September 8-10, 1965	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 121.; Beattie, Donald A. Taking Science to the Moon. Baltimore: Johns Hopkins University Press, 2001, pg. 171-173. Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	S-65-51898 S-65-51857

Zuni Salt Lake, New Mexico	Anders Bean Cunningham Schweikart	September 21-24, 1965	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	
Pinacates, Mexico	Anders Cunningham Schweikart Williams	November 8-10, 1965	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	
Pinacates, Mexico, and Zuni Salt Lake, New Mexico	Bassett Cernan Chaffee	December 27-29, 1965	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	
		1966		

Grand Canyon, Arizona	Brand Burr Carr Duke Engle Evans Haise Irwin Lind Lousma Mattingly Michel Mitchell Pogue Rossa Swigert Weitz Worden	June 2-3, 1966	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	S-66-50451
West Texas	Brand Burr Carr Duke Engle Evans Givens Haise Irwin Kerwin Lind Lousma Mattingly McCandless Michell Mitchell Pogue Roosa Schmitt Swigert Weitz Worden	June 23-24, 1966	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	

Bend, Oregon	Brand Bull Carr Duke Engle Evans Garriot Givens Haise Irwin Kerwin Lind Lousma Mattingly McCandless Michel Mitchell Pogue Roosa Swigert Weitz Worden	July 27-29, 1966	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.
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Katmai National Monument, Alaska	Astronauts visited the Valley of Ten Thousand Smokes.	Brand Bull Carr Duke Engle Evans Garriot Gibson Givens Haise Irwin Kerwin Lind Lousma Mattingly McCandless Michel Mitchell Pogue Roosa Schmitt Swigert Weitz Worden	August 21-25, 1966	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.
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Valles Caldera, New	Brand	September 25, 1966	Phinney, William. "Science Training History of the	
Mexico	Bull Carr Duke Engle Evans Garriot Gibson Givens Haise Irwin Kerwin Lind Lousma Mattingly McCandless Michel Mitchell Pogue Roosa Schmitt Swigert Weitz Worden		Apollo Ástronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	
Pinacates, Mexico	Brand Bull Carr Duke Evans Gibson Givens Haise Irwin Lind Lousma Mattingly Michel Mitchell Pogue Roosa Schmitt Swigert Weitz Worden	November 29- December 2, 1966	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	

			1967			
Hawaii (Island of)	G D E E G G G H Ir L N N	Bull Carr Duke Engle Evans Garriot Gibson Haise Twin Lousma Mattingly McCandless Michel Mogue Vorden	February 12-19, 1967	 r	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	
Pinacates, Mexico	G	ingle Sarriott Cerwin AcCandless	March 16-17, 1967	r	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	

Hawaii (Island of)	Brand Kerwin Lind Roosa Schmitt Swigert Weitz	March 20-24, 1967	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	
Zuni Salt Lake, New Mexico, Hopi Buttes & Meteor Crater, Arizona	Brand Carr Duke Evans Garriot Gibson Haise Irwin Kerwin Lind Lousma Mattingly McCandless Mitchell Roosa Swigert Weitz Worden	May 16-19, 1967	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	
Zuni Salt Lake, New Mexico, Hopi Buttes & Meteor Crater, Arizona	Bull Engle Givens Pogue	May 31-June 2, 1967	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.	

Iceland	Anders Armstrong Brand Carr Duke Engle Evans Garriot Gibson Haise Kerwin Lind Lousma Mattingly McCandless Michel Mitchell Pogue Roosa Schmitt Swigert Weitz Worden	July 2-8, 1967	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix E.
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Big Bend, Texas	Aldrin Anders Armstrong Borman Collins Haise Lovell Schmitt	February 13-14, 1968	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.

_			1969			
Sierra Blanco, Texas	Ari Ha	drin mstrong aise ovell	February 24, 1969		manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	69-H-565 69-H-566 69-H-567 69-H-568 S69-25460 S69-25466 S69-25892 S69-25893 S69-25902
Quitman Mountains		ean onrad	March 10-14, 1969		Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	
Kilbourne Hole, New Mexico	Co	ean onrad bson	April 8-9, 1969		Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	
Big Bend, Texas	Co	ean onrad bson	May 1-2, 1969	•	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	
Meteor Crater, Arizona	Ве	ean	July 10, 1969		Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	
Hawaii (Island of)	Gil Irw Sc	onrad bson vin chmitt cott	August 9, 1969	·	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	

Hawaii (Island of)	Bean Conrad Gibson Irwin Schmitt Scott	August 10-11, 1969	·	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Flagstaff, Arizona	Engle Mitchell Shepard	August 14, 1969	Apollo 14	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Craters of the Moon, Idaho	Cernan Engle Mitchell Shepard	August 22-23, 1969	Apollo 14	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Orocopia Mountains, California	Duke Haise Lovell Schmitt Young	Late September 1969		Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 263 and p. 288.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Mono Crater, California	Duke Haise Lovell Young	September 24- October 1, 1969	Apollo 13	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Sunset Craters, Arizona	Bean Conrad and others?	October 10, 1969	Apollo 12	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Meteor Crater, Arizona	Duke Haise Lovell Young	October 24, 1969	Apollo 13	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.

Kilbourne Hole, New Mexico	Duke Haise Lovell Young	November 11, 1969	'	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	

Hawaii (Island of)	Duke Haise Lovell Young	December 17-20, 1969	Apollo 13	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	S70-20299
		1970			
Pinacates, Mexico	Cernan Engle Mitchell Shepard	February 14-18, 1970	Apollo 14	manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	\$70-29540 \$70-29505 \$70-29535 \$70-29540 \$70-29546 70-HC-383 70-HC-384 70-HC-385 70-HC-386
Verde Valley, Arizona	Worden Brand	March 1970	Apollo 13	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> <u>Geologist's History of Lunar Exploration.</u> Tucson: University of Arizona Press, 1993, p. 238.	
Flagstaff, Arizona	Duke Haise Lovell Young	March 15-16, 1970	Apollo 13	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	
Hawaii (Island of)	Cernan Engle Mitchell Shepard	April 2-4, 1970	Apollo 14	manuscript. Johnson Space Center. N.P., N.D. Appendix ?.; Apollo Astronaut Field Trips File 008973	70-H-757 70-H-758 70-H-756 \$70-34413 \$70-34414 \$70-34415 \$70-34417 \$70-34419 \$70-34420
Chocolate Mountains, California	Gordon Irwin Schmitt Scott	May 6-8, 1970	Apollo 15	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	

Chocolate Mountains, California		Gordon Irwin Schmitt Scott	May 11-13, 1970	Apollo 15	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	
Orocopia Mountains, California		Gordon Irwin Schmitt Scott	June 3, 1970	Apollo 15	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	
Kilbourne Hole, New Mexico		Cernan Engle Mitchell Shepard	June 3-4, 1970	Apollo 14	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	
Flagstaff, Arizona	Astronauts visited volcanic features near Flagstaff. Aerial observation exercise for command module pilots were conducted. The astronauts also visited Meteor Crater, AZ.	Brand Gordon Irwin Schmitt Scott Worden	June 4-5, 1970	Apollo 15	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.; Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 264.	
Flagstaff, Arizona		Evans Roosa	June 18-19, 1970	Apollo 14	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	
Flagstaff, Arizona	Astronauts visited Merriam Crater.	Brand Gordon Irwin Schmitt Scott Worden	July 15-17, 1970	Apollo 15	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 264.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	

San Juan	Astronaut training included a fly-	Carr	July 8-10, 1970	Apollo 16	Wilhelms, Don. E. To a Rocky Moon: A
	around of northern New Mexico.	Duke Haise Pogue Young		·	Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 265.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Medicine Hat, Alberta, Canada		Brand Carr Duke Gordon Haise Irwin Pogue Schmitt Scott Wordon Young	July 23, 1970	·	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.; Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 264.
Ries Crater, Germany	Incidents that occurred on this trip caused Deke Slayton to cancel further European trips.	Cernan Engle Mitchell Shepard	August 11-13, 1970	·	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 290.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.
San Juan Mountains, Colorado		Gordon Irwin Schmitt Scott	August 26-28, 1970	·	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 265.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Colorado Plateau		Carr Duke Haise Pogue Young	September 1-2, 1970	· ·	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Nevada Test Site, Nevada		Cernan Engle Evans Mitchell Shepard	September 11, 1970	Apollo 14	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.

Buell Park, Arizona		Gordon Irwin Schmitt Scott	September 17-18, 1970	Apollo 15	Wilhelms, Don. E. <u>To a Rocky Moon: A Geologist's History of Lunar Exploration.</u> Tucson: University of Arizona Press, 1993, p. 265.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	
Ely, Minnesota	Astronauts visited Duluth complex of gabbro anorthosite.	Gordon Irwin Schmitt Scott	October 7-9, 1970	Apollo 15	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> <u>Geologist's History of Lunar Exploration.</u> Tucson: University of Arizona Press, 1993, p. 268.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	
Northern Minnesota		Duke Young	October 12-14, 1970	Apollo 16	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	
Cinder Lake Crater Field, Arizona		Irwin Scott	November 2-3, 1970	Apollo 15	NASA Headquarters Historical Reference Collection, Washington, DC.	70-HC-1075 70-HC-1076 70-HC-1077 70-H-1498
Nevada Test Site, Nevada		Young Mattingly Duke	November 1970	Apollo 16	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> <u>Geologist's History of Lunar Exploration.</u> Tucson: University of Arizona Press, 1993, p. 268.	
Flagstaff, Arizona		Scott ? Worden? Irwin?	November 1970	Apollo 15?	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 268.	
Nevada Test Site		Duke Young	November 12-13, 1970	Apollo 16	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	

Cottonwood, Arizona	Astronauts visited an artificial crater.	Mitchell Shepard	November 16, 1970	Apollo 14	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> <u>Geologist's History of Lunar Exploration.</u> Tucson: University of Arizona Press, 1993, p. 268.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
	Astronauts visited thrice-deformed or brecciated anorthosites.	Gordon Irwin Schmitt Scott	November 19-20, 1970	Apollo 15	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> <u>Geologist's History of Lunar Exploration.</u> Tucson: University of Arizona Press, 1993, p. 268.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
San Gabriel Mountains, California		Duke Young	November 23-24, 1970	Apollo 16	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
	Astronauts also visited other locations in Hawaii and participated in a series of five practice EVAs.	Gordon Irwin Schmitt Scott	December 5-12, 1970	Apollo 15	Wilhelms, Don. E. <u>To a Rocky Moon:</u> A <u>Geologist's History of Lunar Exploration.</u> Tucson: University of Arizona Press, 1993, p. 268.; Apollo Astronaut Field Trips, File 008973; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?. S70-56433 S70-56380 S70-56409 S70-56419

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Kilbourne Hole, New Mexico		Gordon Irwin Schmitt Scott	January 18, 1971	Apollo 15	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 268.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Kilbourne Hole, New Mexico		Duke	January 18, 1971	Apollo 16	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Kilbourne Hole, New Mexico		Duke Young	January 19, 1971	Apollo 16	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Kilbourne Hole, New Mexico		Haise	January 20, 1971	Apollo 16	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Ubeheb Craters, California	The Ubeheb Craters are near Death Valley, California.	Gordon Irwin Schmitt Scott	February 10-12, 1971	Apollo 15	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 268.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Flagstaff, Arizona		Duke Haise Young	February 25-26, 1971	Apollo 16	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.

Taos, New Mexico	The astronauts visited the Rio Grande Canyon.	Gordon Irwin Schmitt Scott	March 11-12, 1971	Apollo 15	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	\$71-23774 \$71-23472 \$71-23772 \$71-23768 \$71-23769 \$71-23771 \$71-23773 \$71-23775 \$71-23993 \$71-24000 \$71-24015 \$71-24112
Flagstaff, Arizona	Astronauts visted Merriam Crater.	Duke Haise Young	March 29-30, 1971	Apollo 16	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	
Camp Verde, Arizona		Duke Haise Young	April 26-27, 1971	Apollo 16	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	
Coso Hills, California	The training took place at the China Lake Naval Weapons Center.	Brand Gordon Irwin Schmitt Scott Worden	April 29, 1971	Apollo 15	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> <u>Geologist's History of Lunar Exploration</u> . Tucson: University of Arizona Press, 1993, p. 268.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?	
Coso Hills, California		Gordon Irwin Schmitt Scott	April 30, 1971	Apollo 15	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	
Nevada Test Site, Nevada		Gordon Irwin Schmitt Scott	May 20-21, 1971	Apollo 15	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	

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Capulin Mountains, northeastern New Mexico		Duke Haise Young	May 24-25, 1971	Apollo 16	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.; Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 289.
Mono Crater, California	Astronauts visited silicic domes and ashflow tuffs.	Duke Haise Young	June 10-11, 1971	Apollo 16	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.; Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 289.
Flagstaff, Arizona		Gordon Irwin Schmitt Scott	June 25, 1971	Apollo 15	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Sudbury, Ontario, Canada		Duke Haise Young	July 7-9, 1971	Apollo 16	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 290.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Taos, New Mexico	Astronauts visted the Rio Grande Canyon.	Duke Haise Mitchell Young	September 9-10, 1971	Apollo 16	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?. Appendix ?. S71-51600 S71-51612 S71-51614 S71-51616 S71-54564
Big Bend, Texas		Cernan Schmitt	October 19-22, 1971	Apollo 17	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 316.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.

Nevada Test Site, Nevada		Duke Haise Mattingly Young	October 27, 1971	Apollo 16		71-H-1742 71-H-1743 71-H-1741
Coso Hills, California	The training took place at the China Lake Naval Weapons Center.	Duke Haise Mitchell Young	November 17-18, 1971	Apollo 16	manuscript. Johnson Space Center. N.P., N.D. Appendix ?.	71-H-1783 71-H-1781 71-H-1785 71-H-1782 S71-59354 S71-59355 S71-59357
Flagstaff, Arizona		Evans	November 17-18, 1971	Apollo 17	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	
Coso Hills, California		Cernan Schmitt	November 18, 1971	Apollo 17	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> Geologist's History of Lunar Exploration, Tucson: University of Arizona Press, 1993, p. 316.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	
Hawaii		Duke Haise Mitchell Young	December 7-13, 1971	Apollo 16	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	
Kilbourne Hole, New Mexico		Cernan Schmitt	December 20-21, 1971	Apollo 17	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> <u>Geologist's History of Lunar Exploration.</u> Tucson: University of Arizona Press, 1993, p. 316.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	

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	The training took place southwest of Boulder City.	Cernan Evans Schmitt	January 24-25, 1972	Apollo 17	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 316.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Boulder City, Nevada		Duke Haise Mitchell Young	February 17-18, 1972	Apollo 16	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Chocolate Mountains, California		Cernan Irwin Schmitt Scott	February 22-25, 1972	Apollo 17	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 317.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Flagstaff, Arizona		Evans	February 23-24, 1972	Apollo 17	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Sierra Madera		Cernan Schmitt	March 14-15, 1972	Apollo 17	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
San Gabriel Mountains, California		Cernan Schmitt Scott	April 10, 1972	Apollo 17	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 317.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.

San Gabriel Mountains, California		Cernan Schmitt	April 11-12, 1972	Apollo 17	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	
Sudbury, Ontario, Canada		Cernan Evans Schmitt	May 24, 1972	Apollo 17	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> <u>Geologist's History of Lunar Exploration.</u> Tucson: University of Arizona Press, 1993, p. 317.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	S72-41012
Sudbury, Ontario, Canada		Cernan Schmitt	May 25, 1972	Apollo 17	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	
Hawaii		Cernan Schmitt	June 22-26, 1972	Apollo 17	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	
Hawaii		Cernan Evans Schmitt	June 27-28, 1972	Apollo 17	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> Geologist's History of Lunar Exploration, Tucson: University of Arizona Press, 1993, p. 317.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	
Hawaii		Evans	June 29, 1972	Apollo 17	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	
	Training took place at Stillwater Complex at the Stillwater layered intrusion.	Cernan Evans Schmitt Young	July 24, 1972	Apollo 17	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> <u>Geologist's History of Lunar Exploration.</u> Tucson: University of Arizona Press, 1993, p. 317. Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.	

Beartooth Mountains, Montana	Training took place at Stillwater Complex at the Stillwater layered intrusion.	Cernan Schmitt Young	July 25, 1972	Apollo 17	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 317.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.
Nevada Test Site, Nevada		Cernan Duke Evans Schmitt Young	August 7, 1972	Apollo 17	Wilhelms, Don. E. <u>To a Rocky Moon: A</u> <u>Geologist's History of Lunar Exploration.</u> Tucson: University of Arizona Press, 1993, p. 317.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.
Nevada Test Site, Nevada		Cernan Duke Roosa Schmitt Young	August 8, 1972	Apollo 17	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 317.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.
Pancake Range, (near Tonapah) Nevada	Astronauts visted the Lunar Crater.	Cernan Duke Schmitt Young	September 6-7, 1972	Apollo 17	Wilhelms, Don. E. To a Rocky Moon: A Geologist's History of Lunar Exploration. Tucson: University of Arizona Press, 1993, p. 317.; Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.
Blackhawk Slide and Mojave Desert, California		Cernan Duke Schmitt Young	October 6, 1972	Apollo 17	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?.
Flagstaff, Arizona		Cernan Duke Schmitt Young	November 2, 1972	Apollo 17	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix ?.

Flagstaff, Arizona	Cernan Schmitt	November 3, 1972	·	Phinney, William. "Science Training History of the Apollo Astronauts." Unpublished draft manuscript. Johnson Space Center. N.P., N.D. Appendix?	
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