

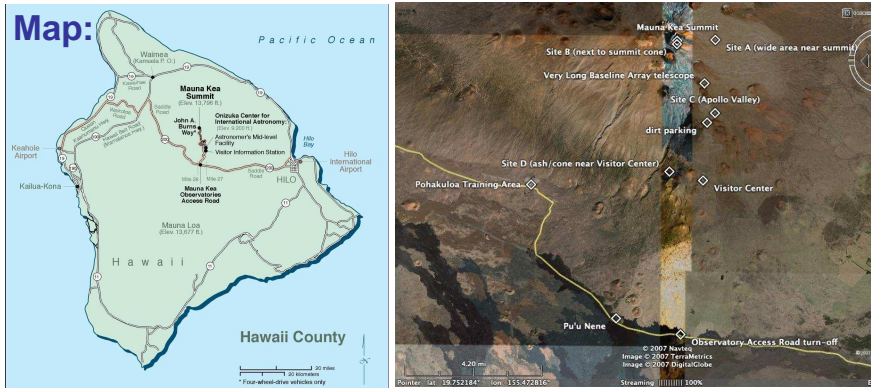
Planetary Analog Site Evaluation Card

Last Rated: Nov 2007 (Fong, Lee, Herrera, Savely)

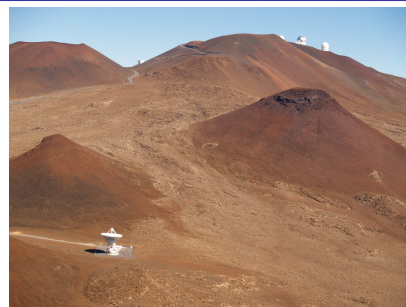
SITE Apollo Valley (Mauna Kea)

POC Bob Fox (PISCES / Univ. of Hawaii-Hilo)
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LOCATION Country: USA State: Hawaii
Coordinates: 19.7884N, 155.45W **Elev.:** +11,400ft.
Nearest Airfield: Hilo **Distance:** 35 mile



DESCRIPTION:
Environment: Volcano
Facility: Mauna Kea Obs.
Crew: N/A
Experiments: Surface Ops
Vehicles: N/A
Open: Year-round



HISTORY

NASA Involvement: Apollo geology training
External Partners: PISCES

FIGURES OF MERIT

Site value: 1 (low) to 5 (high)

Aspect	Details	Comment	1-5
EXPLORATION			
Environment	T, P, RH, Insolation, Radiation,...	High Alt (13,000 ft) UV	3
Topography	Available Area / Traverse Range	300 acres / 1 km	5
	Slopes	Large variety	5
Terrain	Block/Particle Size & Shape Distrib.	Cinder, gravel, boulder	5
	Physical Properties	Compact, unconsol.	5
	Vegetation	None	5
Subsurface	Structure (Layered, Massive,...)		
SCIENCE			
Geology	Composition (Mineral., Geochem.)	Basalt, Ground ice.	4
	Features (Surface, Subsurface)	Cinder cones	4
	Processes (Impact, Volcanism,...)	Volcanism, Wind	4
Biology	Astrobiology (Extremophiles,...)		
ACCESS			
Logistics	Airport (Major)	ITO, 35 miles	4
	Road	18 Wheelers OK.	3
	Logistics Infrastructure Base Site	Hale Pohaku	4
	Water & Food	Hale Pohaku	4
	Power	None	1
	Comms	None	1
	Lodging	Hale Pohaku (50 max)	3
	Vehicles	Cannot leave tracks	1
	Waste Disposal	none	1
	Weather (T Range, Rain?)	0 < T < 65 F	3
Safety	Search & Rescue	Rangers	1
	Medical Support, Hospital	Hilo & Kona	2
Security	Controlled Access	Limited	2
E/PO - PA	Education	PISCES	5
	Public Outreach - Visual Appeal	PISCES	5
	Media	PISCES	5
Permits	Access & Land Use Permits	HI DLNR, OMKM	2
Partners	Partner Organizations / Leveraging	PISCES	3
References	Maps, GIS Data, Publications	Fong Report 9/27/07	5

EVALUATION SUMMARY

Excellent variety of terrain. Good infrastructure (for ~30 people max). Numerous permitting & logistics issues to be resolved. PISCES is new organization. Non unique.