

**BOTANICAL SURVEY OF  
THE HALE PŌHAKU MID-ELEVATION FACILITIES  
CONSTRUCTION STAGING AREA**

Prepared for

**The Outrigger Telescopes Project  
National Aeronautics and Space Administration**

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By



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**DESCRIPTION OF THE BOTANICAL RESOURCES**

**Historic Description of the Botanical Resources near the Hale Pōhaku Mid-Elevation Facilities**

The following description is taken largely from the previous botanical surveys of the Hale Pōhaku Mid-Elevation Facilities (Gerrish 1979, Char 1985, Char 1990, Char 1999).

The subalpine dry forest in which the Hale Pōhaku Mid-Elevation Facilities are located extends from below the lower boundary of MKSR to the Saddle Road (Char 1999). This open-canopied

forest predominantly comprises *māmane* trees (*Sophora chrysophylla*). *Māmane* trees intercept fog that provides understory plant species with the small amounts of moisture they need to survive (Gerrish 1979). Below 2,377 m (7,800 ft), *naio* (*Myoporum sandwicense*) is co-dominant with *māmane*, with occasional scattered stands of *akoko* (*Euphorbia olowaluana*) and individual *'iliahi* (*Santalum paniculatum*) trees in very low abundance (Van Riper 1975; Wagner and others 1990).



*Māmane forest covers the western slopes of Mauna Kea below about 2,804 m (9,200 ft).*





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 Description of the Botanical Resources

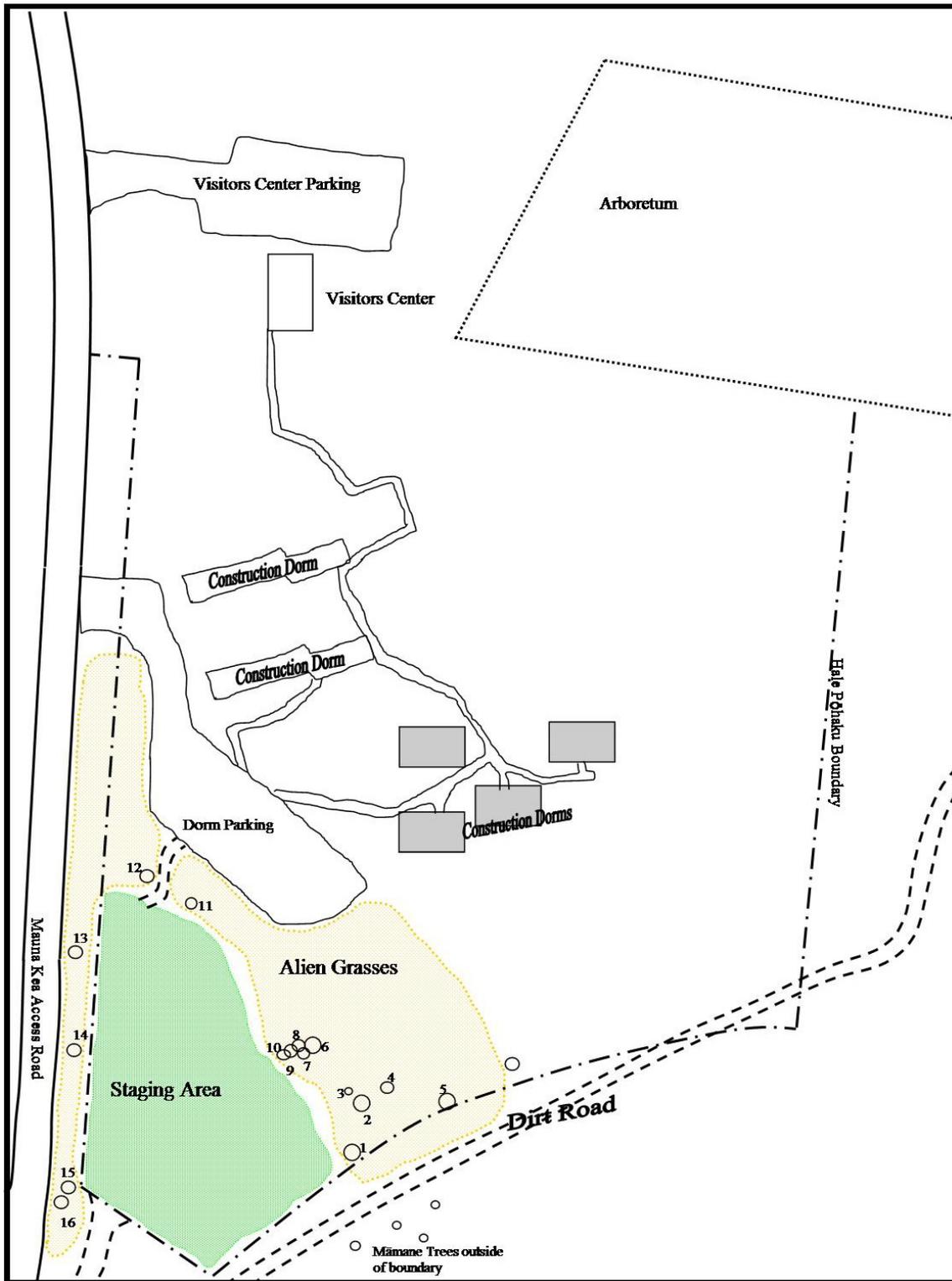


Figure 1. Map of Vegetation Surrounding Hale Pōhaku Construction Staging Area









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Description of the Botanical Resources



The construction staging area (outlined in green) and surrounding vegetation.



View of the vegetation to the East and North of the site.









