

***Buellia abstracta* in the Joshua Tree National Park (California, U.S.A.)**

Map collection



Buellia abstracta. Photo by Tim Wheeler

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Abstract – *Buellia abstracta* is the most frequent *Buellia* species on rocks in California, occurring in a wide range of habitats. It is common in the Mojave and Sonoran Deserts in Joshua Tree, documented by 30 collections. It prefers decaying monzogranite. The name *Buellia sequax* was misapplied to this species. The map of distribution of *B. abstracta* in Joshua Tree is presented. We compiled a detailed list of records based on GPS data.

Key words – *Buellia abstracta*, lichens, map of distribution, Mojave and Sonoran Deserts, monzogranite

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***Buellia abstracta* (Nyl.) H. Olivier.**

DESCRIPTION. – Bungartz et al. 2007 (treated as *B. sequax*).

WORLD DISTRIBUTION. – Europe, North America.

SUBSTRATE. – Non-calcareous rock, sometimes on consolidated soil or in biological soil crusts (Hernandez and Knudsen 2012); usually on monzogranite in Joshua Tree.

NOTES. – *Buellia abstracta* is the most frequent *Buellia* species on rocks in California, occurring in a wide range of habitats. The name *Buellia sequax* was misapplied to this species (Giralt et al. 2011) but is now applied to the coastal species treated recently as *B. lepidastroidea* Imshaug ex Bungartz (Bungartz et al. 2007). *Buellia abstracta* is common in the Mojave and Sonoran Deserts in Joshua Tree, documented by 30 collections. It prefers decaying monzogranite. Its production of norstictic acid varies in concentration and specimens without detectable amounts are common in southern California.

DISTRIBUTION. – Juniper Flats, Little San Bernardino Mountains (Berdo Canyon, Pushwalla), lower and upper Covington Flats, Pine City, Pinkham Canyon, Queen Mountain, Queen Valley, Ryan Mountain, Saddle Rock, Sheep's Pass, Smith Water Canyon, Split Rock, Squaw Tank, Wonderland of Rocks (near west entrance to park).

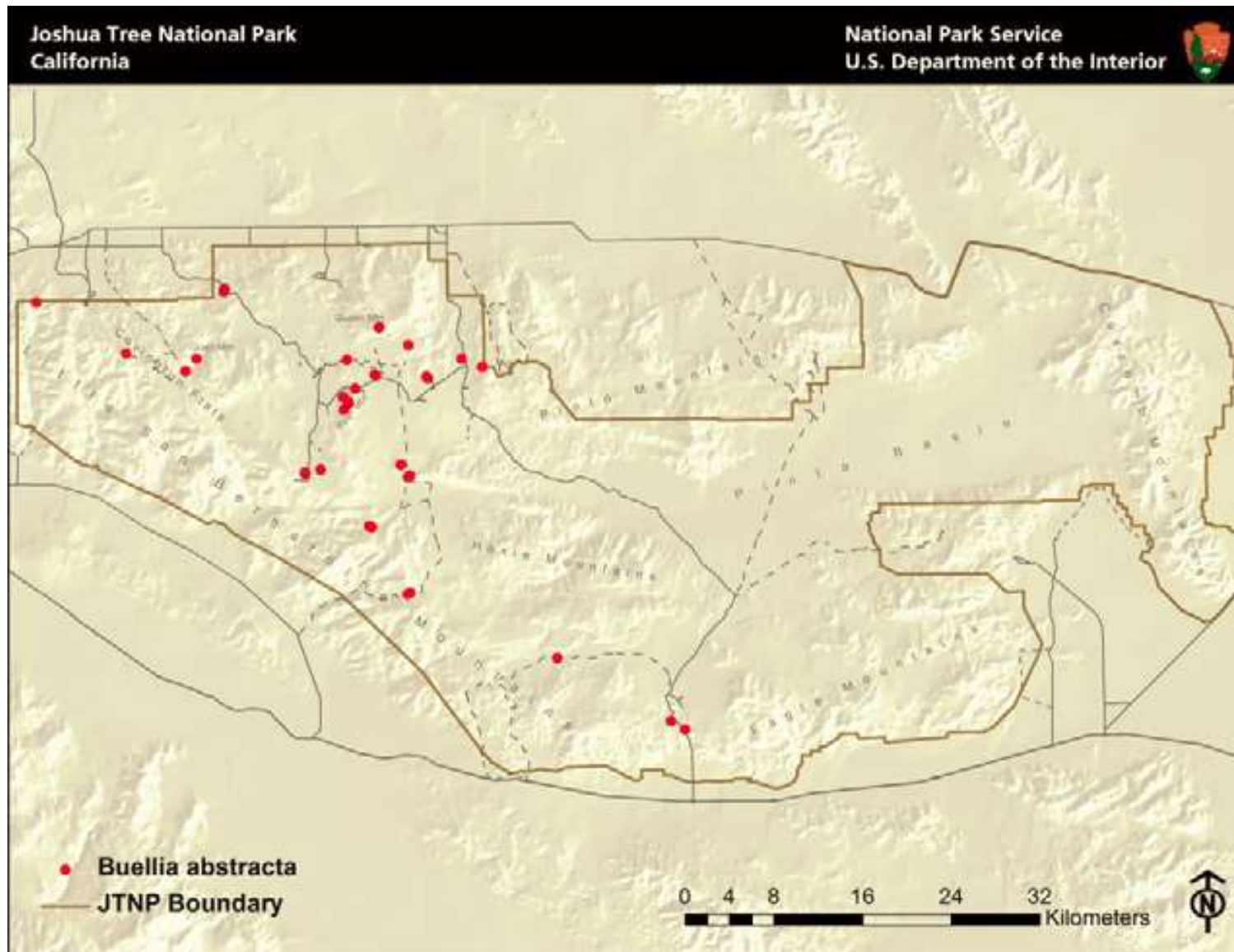
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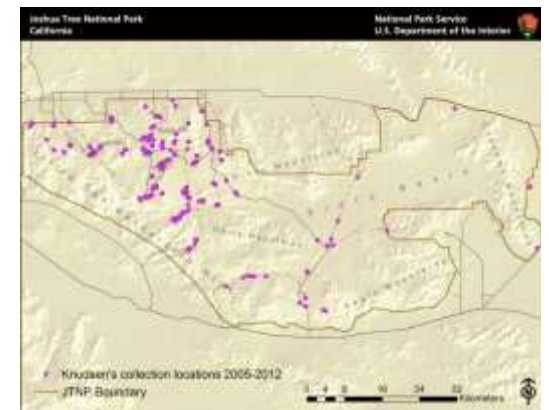
Buellia abstracta



Known distribution of *Buellia abstracta* in JTNP.



Location of Joshua Tree National Park in Southern California



All 238 of Knudsen's and Kocourková's lichen collection sites throughout Joshua Tree National Park between the years of 2005 and 2012.

Map collection, maps made in software ArcGIS, 10.1; electronic form, file type pdf.