

California Status Factors

Elcode NFSM000033
Gname CLITOCYBE SUBDITOPODA
Gcomname FUNGUS

Number of Occurrences

A = 1 - 5

Comments The ISMS map shows one site near Arcata, representing 2 occurrences.

Number of Occurrences with Good Viability

U = Unknown what number of occurrences with good viability

Comments Unknown

Population Size

U = Unknown

Comments The range of appropriate habitat but lack of cited occurrences suggests a lack of collection and study of this species.

Range Extent

E = 5,000-20,000 km² (about 2,000-8,000 square miles)

Comments Estimated range is about 7,765 square kilometers (2998 square miles). This species is apparently restricted to the Sitka spruce (*Picea sitchensis*) zone in northern California, although it is possible that it may be located further inland in the white pine (*Pinus monticola*) zone.

Area of Occupancy

A = <0.4 km² (less than about 100 acres)

LA = <4 km (less than about 2.5 miles)

Comments From the ISMS map, it is known that the two separate noted occurrences are within 500 meters of each other. Thus, the area covered by the species is estimated to be less than 250 square meters (.06 acres) in California.

Long-term Trend in Population Size, Extent of Occurrence, Area of Occupancy, and/or Number or Condition of Occurrences

U = Unknown. Long-term trend in population, range, area occupied, or number or condition of occurrences unknown

Comments Unknown

Short-term Trend in Population Size, Extent of Occurrence, Area of Occupancy, and/or Number or Condition of Occurrences

U = Unknown. Short-term trend in population, range, area occupied, and number and condition of occurrences unknown.

Comments Unknown

Threats

A = Substantial, imminent threat. Threat is moderate to severe and imminent for most (> 60%) of the population, occurrences, or area. Ecological community occurrences are directly impacted over a widespread area, either causing irreversible damage or requiring long term recovery

Scope High Severity Moderate Immediacy High

Comments As far as is known, there is a moderate to severe threat to the populations of this species in California, as this species does not appear to have a large range of habitat and there are no protected populations in California. Widespread logging, road and trail construction, or other activities that destroy the mossy, shaded substrates and Picea and Pinus needle beds on which this species grows may threaten the species.

Number of Appropriately Protected and Managed Occurrences

A = None. No occurrences appropriately protected and managed

Comments No protected and managed occurrences in California. The two known occurrences are located on unprotected sites.

Intrinsic Vulnerability

B = Moderately Vulnerable. Species exhibits moderate age of maturity, frequency of reproduction, and/or fecundity such that populations generally tend to recover from decreases in abundance over a period of several years (on the order of 5-20 years or 2-5 generations); or species has moderate dispersal capability such that extirpated populations generally become reestablished through natural recolonization (unaided by humans). Ecological community occurrences may be susceptible to changes in composition and structure but tend to recover through natural processes given reasonable time (10-100 years).

Comments Moderately vulnerable. Fruiting bodies are of moderate size and fragility and have relatively small spores. Spores could theoretically travel a great distance, though the species preferred temperate forest habitat suggests a lack of strong winds to carry the spores such distances.

Environmental Specificity

B = Narrow. Specialist or community with key requirements common.

Comments Key requirements for this species include needle beds of Picea and Pinus species in coastal to mid-elevation conifer forests. It is also noted that this species occurs on "mossy ground in woods".

Other Considerations

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Grank S1S3 **Grank Date** 11/25/2002

Reasons

Very few collections of this species have been documented in California. Because of this lack of information, it is difficult to estimate the population size, viability and population trends of this species in California. However, it is known that the potential habitat for this species in California is somewhat restricted. Number of occurrences is 2. It is unknown how many individual organisms are located at each site of occurrence, though it is known that each site of occurrence occupies less than 250 square meters (.06 acres). Estimated range is about 7, 765 square kilometers (2998 square miles). Long-term and short-term trends unknown. Moderate to severe threat. There are no protected occurrences in California. Moderately vulnerable. Narrow environmental specificity.

Because of a lack of collections and information about this species, the guide for ranking poorly known species was used to assign the Rank.

BCD Sources

New Sources

Castellano, Michael A., J. E. Smith, T. O'Dell, E. Cazares & S. Nugent. 1999. Handbook to Strategy 1 Fungal Species in the Northwest Forest Plan. Gen. Tech. Rep. PNW-GTR-476. Portland, Oregon: United States Department of Agriculture, Forest Service, Pacific Northwest Research Station. 195 p.

USDA Forest Service, USDI Bureau of Land Management, USDI Fish and Wildlife Service. 2002. Interagency Species Management System [ISMS] database. Portland, Oregon.

New York State Museum (NYS). Mycological Herbarium Type Specimen Database. 1999. Albany, New York. <http://mapserver.nysed.gov/data/fungi/fungiall.html>