

Conservation Status Assessment

Scientific Name: *Dermocybe humboldtensis*

Classification: Fungus

Assessment area: Global

Heritage Rank: **G2**

Rank Date: 3/9/2017

Rank Reasons: Only about 5 occurrences in two states. A good species, refer to *Cortinarius humboldtensis* Ammirati & A.H. Sm. (1977) [*Dermocybe* polyphyletic & not molecularly supported.] Harrower & al. (2011) molecularly support occurrence of species in BC, suggesting a wider distribution than previously recognized. (Harrower, Emma; Ammirati, Joseph F.; Cappuccino, Adam A.; Ceska, Oldriska; Kranabetter, J.M.; Kroeger, Paul; Lim, SeaRa; Taylor, Terry; Berbee, Mary L. 2011. *Cortinarius* species diversity in British Columbia and molecular phylogenetic comparison with European specimen sequences Botany 89: 799–810.)

Range Extent: E = 5,000-20,000 sq km (~2,000-8,000 sq mi)

Comments: Around 7,000 sq. km range. A couple occurrences in southwestern Oregon and a couple in northwestern California.

Population Size: Not assessed

Comments: None

Number of Occurrences: A = 1 - 5

Comments: 5 known occurrences.

Area of Occupancy: D = 6-25 4-km² grid cells

Comments: None

Good Viability: B = Very few (1-3) occurrences with excellent or good viability or ecological integrity

Comments: One occurrence in Irwin Rocks Research Natural Area.

Environmental Sensitivity: Not Evaluated

Comments: None

Short Term Trends: Not Evaluated

Comments: None

Long Term Trends: Not Evaluated

Comments: None

Threat Impact: C = Medium

Comments:

Norvell in 2002 assessment said: "DEHU4 is restricted to the Pacific coast region where it is symbiotically associated with Pinus on stable dunes in California (habitat data for the Oregon population is not currently available). Whatever threatens the mycorrhizal partners or the dunes threatens DEHU4: natural catastrophes (hot fires) and/or human interference with the natural habitat (road construction or other development, off-road vehicular traffic, and logging activities) (Norvell pers. comm. 2002)." One occurrence in a natural area, and another maybe in a riparian reserve. Medium-high threat.

Intrinsic Vulnerability: Not Evaluated

Comments: None

Calculated Rank: G2

Rank Author: Caitlin Lawrence

Rank Reviewer: Lorelei Norvell; Lindsey Wise

References:

Lawrey, J.D.; Lucking, R.; Sipman, H.J.M.; Chaves, J.L.; Redhead, S.A.; Bungartz, F.; Sikaroodi, M.; Gillevet, P.M. 2009. High concentration of basidiolichens in a single family of agaricoid mushrooms (Basidiomycota: Agaricales: Hygrophoraceae). *Mycological Research*. 113(10):1154-1171.

Definitions and Resources:

Rank Prefixes	
G	Global rank, applied to taxon's full geographic range
S	State rank, applied to taxon's range within the designated state
Rank Values	
1	Critically imperiled
2	Imperiled
3	Vulnerable
4	Apparently secure, uncommon but not rare
5	Secure, common, abundant, and widespread

Suggested citation:

Oregon Biodiversity Information Center. 2017. Fungi Conservation Status Assessments. Institute for Natural Resources, Portland State University and Oregon State University. Portland, Oregon and Corvallis, Oregon.

More assessments available at <http://inr.oregonstate.edu/orbic/rare-species/ranking-documentation>

Element rank calculator resources at <http://www.natureserve.org/conservation-tools/conservation-rank-calculator>

Oregon Biodiversity Information Center, Institute for Natural Resources

Oregon State University and Portland State University

Mail Stop: INR, P.O. Box 751

Portland, OR 97207-0751

(503)-725-9950

<http://inr.oregonstate.edu/orbic>

<http://inr.oregonstate.edu/>