

Conservation Status Assessment

Scientific Name: *Mythicomyces corneipes*

Classification: Fungus

Assessment area: Global

Heritage Rank: **G2G3**

Rank Date: 3/9/2017

Assigned Rank Comments: None.

Rank Adjustment Notes: *Mythicomyces corneipes* ((Fr.) Redhead & A.H. Sm. nomenclaturally validated in Redhead, Ammirati, Norvell, Vizzini & Contu Mycotaxon 118: 456 (2011). Multi-gene analyses by Matheny & al. (2006) support the monotypic genus in the Psathyrellaceae; MYCO used in many papers as outgroup in phylogenetic analyses of dark-spored genera (e.g., Matheny & Griffith 2010; Nagy & al. 2009, 2011). Listed as vulnerable to critically endangered in 9 European countries & relevant for assessment on 2012 European Redlist. DSEIS 2006 report shows insufficient habitat. Suggest raising rank given the global rarity. (Matheny, P. Brandon; Griffith, Gareth W. 2010. Mycoparasitism between *Squamanita paradoxa* and *Cystoderma amianthinum* (Cystodermateae, Agaricales). Mycoscience 51: 456–461. ; Matheny PG, Curtis JM, Hofstetter V, Aime MC, Moncalvo JM, Ge ZW, Yang ZL, Slot JC, Ammirati JF, Baroni TJ, Bougher NL, Hughes KW, Lodge DJ, Kerrigan RW, Seidl MT, Aanen DK, DeNitis M, Daniel GM, Desjardin DE, Kropp BR, Norvell LL, Parker A, Vellinga EC, Vilgalys R, Hibbett DS. 2006. Major clades of Agaricales: a multilocus phylogenetic overview. Mycologia 98: 982-995. CHGR GAAT HEOL MYCO Phaeocollybia ; Nagy, L.G.; Kocsubé, S.; Papp, T.; Vágvölgyi, C. 2009. Phylogeny and character evolution of the coprinoid mushroom genus *Parasola* as inferred from LSU and ITS nrDNA sequence data. Persoonia 22: 28–37. MYCO ; Nagy, László G.; Walther, Grit; Házi, Judit; Vágvölgyi, Csaba; Papp, Tamás. 2011. Understanding the evolutionary processes of fungal fruiting bodies: correlated evolution and divergence times in the Psathyrellaceae. Systematic Biology 60(3): 303–317. MYCO

Range Extent: H = >2,500,000 sq km (> 1,000,000 sq mi)

Comments: The range includes Alaska, British Columbia, Oregon, Washington, Idaho, Colorado, Utah, Michigan, New York, Ontario, and northern Europe.

Population Size: Not assessed

Comments: None

Number of Occurrences: C = 21 - 80

Comments: There are around 60 known occurrences

Area of Occupancy: E = 26-125 4-km² grid cells

Comments: This species occupies around 60 grid squares around its global range.

Good Viability: D = Some (13-40) occurrences with excellent or good viability or ecological integrity

Comments: About 16 sites are in permanently protected areas including National, State, and Provincial Parks and wilderness areas.

Environmental Sensitivity: A = Very narrow. Specialist or community with key requirements scarce

Comments: This is a species of wet soil at the margins of bogs under conifers or alders.

Short Term Trends: Not Evaluated

Comments: None

Long Term Trends: Not Evaluated

Comments: None

Threat Impact: B = High

Comments:
Around 45 of the approximately 60 sites are not in protected areas, If those sites are logged on a 40 year rotation, around 16% of the sites would be impacted over 10 years and around 75% of the sites would be

Intrinsic Vulnerability: Not Evaluated

Comments: None

Calculated Rank: G3

Rank Author: Michael Russell

Rank Reviewer: Lorelei Norvell

References:
No additional references listed.

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>

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