

## Conservation Status Assessment

**Scientific Name:** *Galerina sphagnicola*

**Classification:** Fungus

**Assessment area:** Global

**Heritage Rank:** **G3G4**

**Rank Date:** 2/28/2018

Rank Reasons: Suspect western any collections may represent the very similar *G. sphagnorum*. Lilleskov & al. (2016) note represents a white rot species. See Gulden & al. (2005) for phylogenetic relationships. (See Norvell 2004 for thoughts on GASP13 and ecological inventories in the PNW) (Filippova, N.V.; Thormann, M.N. 2014. Communities of larger fungi of ombrotrophic bogs in West Siberia. *Mires and Peat* 14: 1–22. ; Voitek, Andrus. 2012. Species list and distribution by foray trail [Newfoundland!]. *Omphalina* 3(12): 23–35 ; Davey, Marie L.; Heimdal, Rune; Ohlson, Mikael; Kauserud, Håvard. 2013. Host- and tissue-specificity of moss-associated *Galerina* and *Mycena* determined from amplicon pyrosequencing data. *Fungal Ecology* 6: 179–186. ; Lilleskov, Erik A.; Lamit, L. Jamie; Lennon, Jay T.; Romanowicz, Karl R.; Tringe, Susannah G.; Kane, Evan S.; Potvin, Lynette R.; Wiedermann, Magdalena M.; Chimner, Rodney A.; Kolka, Randall K. 2016. 160. Fungal community response to water table and plant functional group manipulations in the PEATcosm experiment: Evidence for the Gadgil Effect? Poster abstract IN: Abstracts: MSA Annual Meeting, Berkeley CA 7–11 August 2016. ; Gulden, Gro; Stensrud, Øyvind; Shalchian-Tabrizi, Kamran; Kauserud, Håvard. 2005. *Galerina* Earle: A polyphyletic genus in the consortium of dark-spored agarics. *Mycologia* 97: 823–837. ) In 2002 assessment Norvell also cited the following: "*Galerina sphagnicola* is known only from northeast North America and Scandinavia; reported in the literature only in Smith & Singer (1964) and Gulden (1992). It is not known from western North America nor from the northern spotted owl region of the United States. No occurrences, unconfirmed or otherwise, have been reported from that region. Herbarium databases that were checked included the National Mycological Collections at Beltsville, New York Botanic Garden, New York State Museum, University of Michigan, University of California, Oregon State University, and OSU-Forest Science Laboratory. Within all of those, there was only one collection (at MICH) of *G. sphagnicola* recorded, from Michigan."

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

Comments: Wide range across Canada and the United States but rare within its range. Found in Alaska, Washington, Oregon, Michigan, Massachusetts, Newfoundland and Labrador, Quebec. L. Norvell says "No verification from the PNW. Globally, this sphagnum associate has been recorded only from eastern Canada, Michigan, n. Europe & Russia. Cited as non-endangered in Norway but 2014 candidate for the European redlist, vulnerable in France (2004)."

**Population Size:** Not assessed

Comments: None

**Number of Occurrences:** CD = 21 - 300

Comments: Around 10 known occurrences in North America, likely more. Where found in the appropriate habitats in Europe and eastern N. America, abundant.

**Area of Occupancy:** EF = 26-500 4-km<sup>2</sup> grid cells

Comments: Filippova (2014) study in w. Siberia shows great abundance in Scheuchzerio-palustris-Sphagnetum cuspidatii association (absent in Ledo-Sphagnetum fusci assn.) where recorded as the most abundant saprotroph on Sphagnum, based on sporocarp density (VI). 4 collections verified (by Gulden) from Newfoundland (Voitk 2012). Note: where found in the appropriate habitats in Europe and eastern N. America, abundant. Pyrosequencing studies by Davey & al. (2013) confirm its association with bryophytes.

**Good Viability:** CD = Few to some (4-40) occurrences with good viability

Comments: At least 3 occurrences found in protected areas in North America: Tahquamenon Falls State Park, Three Sisters Wilderness and Laurentides Provincial Park. Protection status of other global sites unknown.

**Environmental Sensitivity:** Not Evaluated

Comments: None

**Short Term Trends:** Not Evaluated

Comments: None

**Long Term Trends:** Not Evaluated

Comments: None

**Threat Impact:** U = Unknown

Comments:  
Difficult to rate with only about 10 occurrences.

**Intrinsic Vulnerability:** Not Evaluated

Comments: None

**Calculated Rank:** G3G4

**Rank Author:** Caitlin Lawrence; Lindsey Wise

**Rank Reviewer:** Lorelei Norvell; Lindsey Wise

**References:**  
No additional references listed.

**Definitions and Resources:**

<b>Rank Prefixes</b>	
G	Global rank, applied to taxon's full geographic range
S	State rank, applied to taxon's range within the designated state
<b>Rank Values</b>	
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

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