

DNA Sequencing results

February 24th 2025

This is a short summary of the latest sequencing results since the February report. It looks like I have turned the corner and am getting a decent number of results again. In no particular order:

- ***Hebeloma eburneum***. Two sequences of this species from main part of Crom Estate on different survey days (Inishsherk and near to the Castle). Under Hazel and Oak. First Irish records of this species in this very cryptic genus. It is in section *Crustiliniformia* which includes *H. crustiliniforme* not unsurprisingly. Most records of *Hebeloma* are for the Poison Pie, *H. crustiliniforme* but this is incorrect as this species appears to be rare with only scattered records in the UK. Many of the finds may be of *H. eburneum*.



- ***Hebeloma sordescens*** Also found near to Crom Castle, this is also a first Irish record. Much darker brown than the above species. Found under Hazel.



- ***Hebeloma hiemale*** Yet another first record for Ireland probably. A smaller more gracile species than *H. eburneum* or *H. sordescens*. From Mullynacoagh wood on the other side of Upper Lough Erne. Not too much to distinguish it in the field.....



- ***Hebeloma geminatum***. Yet another first for Ireland. From the salix carr alongside the lough edge at Derryvore which was the richest area of woodland we were in. Again, in the field looks more or less like the other species of *Hebeloma*....

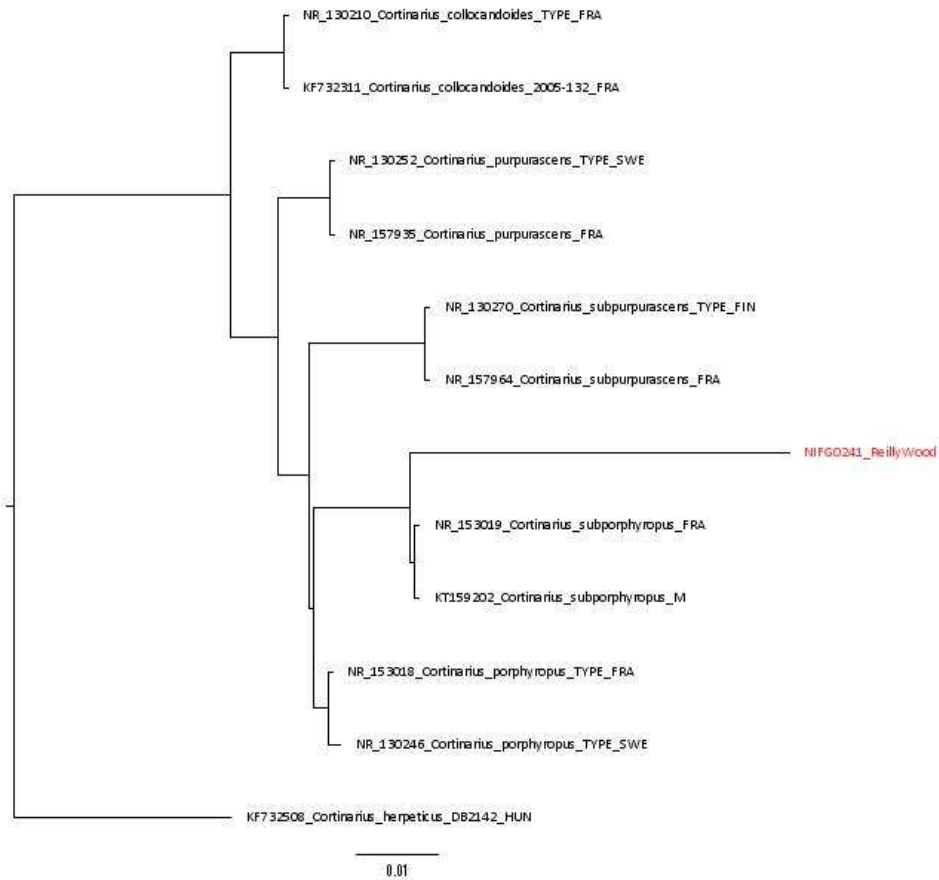


- ***Hebeloma cf hiemale***. This sequence is a bit further away from the main cluster of *hiemale*. It may be a while before this is resolved if ever.... Also from the salix carr at Derryvore.

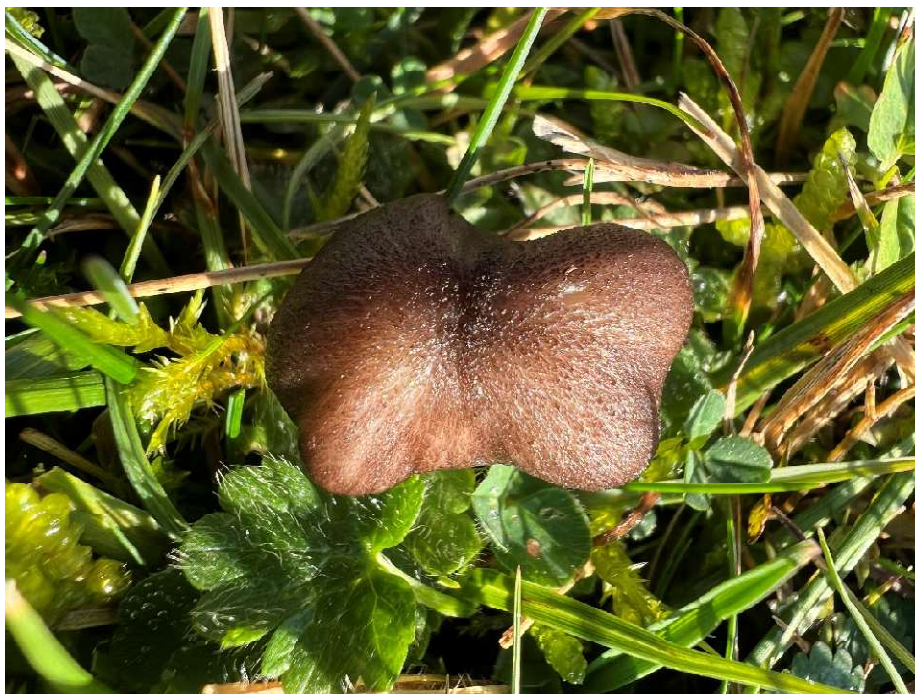


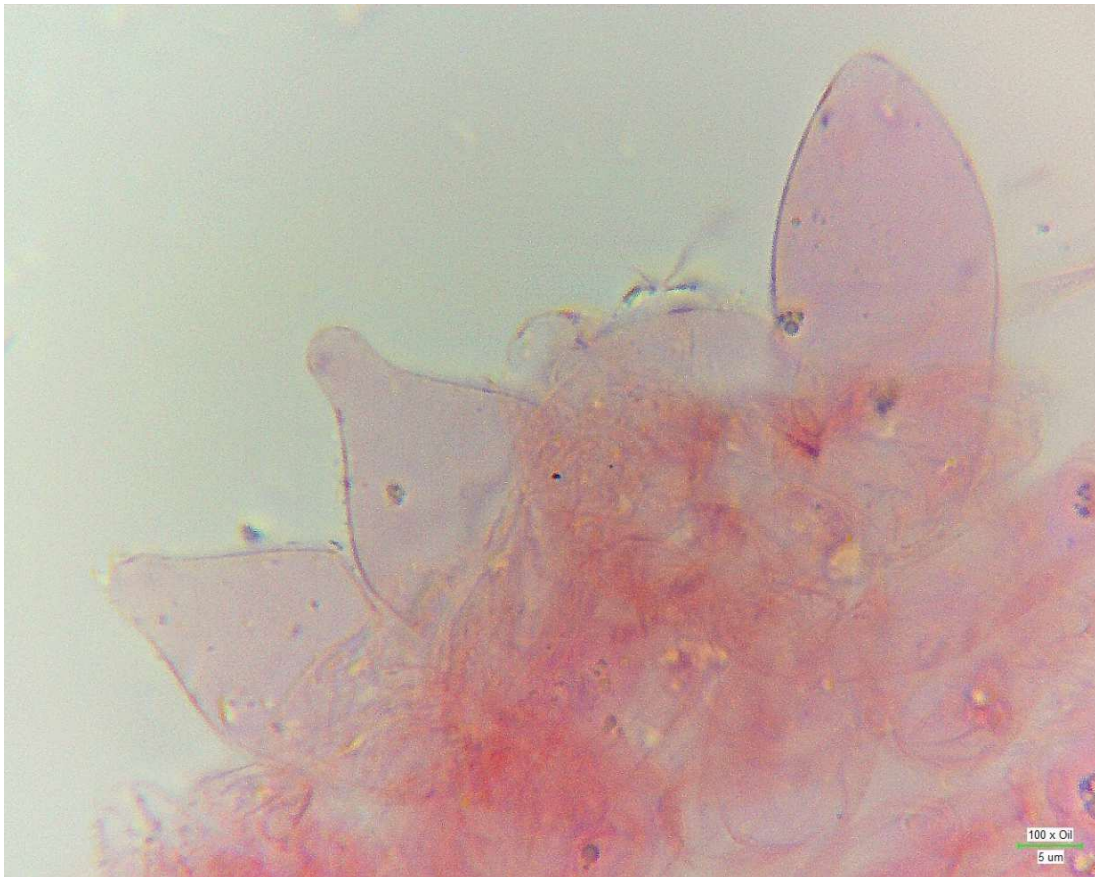
- ***Cortinarius cf subporphyropus* area:** Found in Reilly Wood by Lisa Maddox. This is a very small Phlegmacium with a bulbous stipe base in the clade *purpurescens*. It is closest to *subporphyropus* which is not yet British but one species highlighted by Geoffery Kibby as probably British. However it is slightly different and an identification may have to wait for more research to be published in this area.





- ***Entoloma rhyncocystidium***. Found at Clyhannagh I think by Donal Cassidy. Only confirmed as British two weeks ago from a find near Stroud in Gloucestershire. Noted by the distinctive cheilocystidia. Photographs courtesy of Simon Harding, the finder.





- ***Entoloma jubatum***: Two more sequences from Clyhannagh on the Marlbank so along with the Cloghan Hill find, this shows that this is likely to be common and I will try not to sequence it again...



- ***Inocybe phaeosticta***. There is debate as to whether this is a distinct species or a synonym of *Inocybe margaritospora* which has just one record in Ireland from the Sperrins. However this sequence was 99.14% match to sequences labelled as *phaeosticta* in a recent published paper and 97.87% match to ones labelled as *margaritospora*. As 98.5% is the target for an identification, this split may be genuine and is being looked into. Found on Inisherck.

