Latin name	Common name	Where found	Lundy locality	Date
Ramularia pratensis	Sorrel Felt	Leaf of Sheep's Sorrell	Lower Millcombe	04/11/2023
Ramularia primulae		Leaf of Primrose	Millcombe	13/05/2023
Ramularia scolopendrii		Leaf of Balm-leaved Figwort	Lower Millcombe	13/05/2023
Ramularia taraxaci		Leaf of Dandelion	Farm Buildings	13/05/2023
Rhynchosporium orthosporum syn. *Rhynchobrunnera orthospora*		Leaf of Cocksfoot	Stoneycroft garden	13/05/2023
Sarcopodium tortuosum		Dead Pine twig	Upper Millcombe	04/11/2023
Scutellinia crinita syn. *S scutellata var cervorum*	Eyelash Cup	Rotted Turkey Oak wood	Quarter Wall Copse	09/11/2023
Septoria stellariae		Leaf of Chickweed	Stoneycroft garden	13/05/2023
Sporidesmum tetracoilum		Sycamore branch	Lower Millcombe	09/11/2023
Ustilaginales	**Smuts**			
Entyloma ficariae	Celandine Smut	Leaf of Lesser Celandine	Lower Millcombe	13/05/2023
Ustilago striiformis	Striped Smut	Leaf of Cocksfoot	Lower Millcombe	13/05/2023
Uredinales	**Rusts**			
Puccinia heraclei		Leaf of Hogweed	Stoneycroft walled garden	13/05/2023
Puccinia recondita f.sp.*bromalis*		Leaf of Bromus hordaceus ssp. Ferranii	Jetty Road	13/05/2023
Myxomycetes	**Slime Moulds**			
Cribraria intricata		Rotten wood	Lower Millcombe	21/11/2023
Cribraria violacea		Very rotten soft wood	Lower Millcombe	21/11/2023

▲ *Eyelash Cup* Scutellinia crinita *on rotten wood Quarter Wall Copse November (photo: John Hedger).*

▲ *Scarlet Waxcap* Hygrocybe coccinea *on the Airfield November (photo: Mandy Dee).*

Surveys of fungi on Lundy

John Hedger

▲ *A group of Imperial College M.Sc. students and staff counting fungal fruiting bodies on SW Field on the 22nd November (photo: John Hedger).*

The preceding account by Mandy Dee summarises the records of species of fungi new to Lundy and found in 2023. In addition, surveys of the abundance of fruit bodies of macrofungi (mushrooms and toadstools) were made at two sites: the **Airfield** and at the **North End**, both in November These counts add to those from previous years, stretching back to 2006.

Counts of fruiting bodies of fungi on the Airfield

The Airfield counts were made by the visiting group of Imperial College M.Sc (Environmental Studies) students led by Dr Julia Schroeder who come to Lundy in November to study the Sparrow population but who also diversified in 2022 to counting the fungi on the Airfield, giving rise to the intriguingly titled 'Sparrows and Fungi' public lecture given in the St. Helen's Centre at the end of their week on the island. This exercise was repeated on 21st November 2023. Groups of students were spread across the width (50m) of the eastern end of the Airfield and progressed down its length (529m) to the western end, recording numbers of fruit bodies of the different species of grassland fungi as they went, using the LFS publication 'Lundy Fungi' to check the identities. A calculation shows they checked 26450 square metres of turf! *

*thanks to Alan Rowland for these measurements

▲ *Immature sporangia of the Egg Shell Slime Mould* Leocarpus fragilis *in turf lower SW Field near Rocket Pole November (photo: John Hedger).*

The table shows the counts made in 2023 compared to the 2022 figures. The total number of species found, and their abundance, was greater in 2023 than 2022 with almost three times more fruit bodies found and double the number of species. The iconic Waxcap species, for example the Scarlet and Crimson Waxcaps, make up part of a system for assessing grassland fungal diversity (the 'CHEGD' score) and this is given below the table, 20 for 2022 ,27 for 2023, both high scores, confirming Lundy's important grassland fungal population. **H** in the score stands for Hygrocybe, the 'old' name for all Waxcaps,and this is used in the table rather than confusing the score by including the 'new' genera like *Cuphophyllus* and *Gliophorus* into which some Waxcaps have been moved by the taxonomists.

A second group of students did a similar count extending up Southwest field from Rocket Pole on the 22nd of November. Counts were high and with intriguing differences in species abundance to the Airfield data. One difference was the presence of shiny bright yellow or orange-red groups of the sporangia of the **Egg Shell Slime Mould** *Leocarpus fragilis* clinging to the plant stems (see photo). This species prefers acid heathy areas on Lundy and lower SW Field has indeed many more heathland plants like Heather than on the Airfield.

Hopefully this is the start of a second grassland fungi monitoring site on Lundy which will continue in future years. *Well done the Imperial students, it was hard work in trying conditions of cold winds and rain on both days.*

Counts of the Grey Waxcap at the North End

A November count of fruit bodies of fungi by LFS volunteers has now been going on for many years over the heathland (Waved Heath) at the North End, mostly recently by John Hedger, Mandy Dee and Alan and Sandra Rowland, and has confirmed the peculiarly local confinement of the **Grey Waxcap** (*Cuphophyllus lacmus*) to this area. In November 2023 a count was made by John Hedger and Angus Croudace (Voluntary Lundy Warden). Only one fruit body occurred west of the central path though more (175) were found around John O'Groats House and along the northern and eastern edge of the North End. This was more than the total count in 2022 (82) but much less than 2021 (981).

▲ *Fruit bodies of the Grey Waxcap* Cuphophyllus lacmus *amongst Heather and Cladonia cf arbuscula lichen near John O'Groats House, North End, in November (photo: John Hedger).*

Whether a symbiotic (mycorrhizal) relationship exists between Heather at the North End and this Waxcap remains a mystery. 2024 may see it resolved by an LFS funded research project by Aberystwyth University and Imperial College which will investigate the presence of DNA of this fungus in the roots of Heather from the North End, and elsewhere on Lundy.

▼ *Table 2. Numbers of fruit bodies of species of slime moulds and fungi found on the Airfield in 2022 and 2023.*

Species of Fungi		Counts 2022	Counts 2023
Cheilymenia granulata	Cowpat Gem	9	0
Clavaria acuta	Pointed Club	0	2
Clavulinopsis helvola	Yellow Club	0	41
Clavulinopsis corniculata	Meadow Coral	0	2
Clavulinopsis fusiformis	Golden Spindles	0	2
Clavulinopsis luteoalba	Apricot Club	0	3
Clitocybe rivulosa	Fool's funnel	0	14
Conocybe tenera	Common Conecap	1	0
Crinipellis stipitaria	Hairy parachute	1	0
Entoloma ameides		13	1
Entoloma hebes		0	1
Entoloma papillatum		0	2
Entoloma sericellum	Cream Pinkgill	5	0
Entoloma sericeum	Silky Pinkgill	1	0
Mucilago crustacea		0	2
Galerina peudomycenopsis		0	2
Gamundia pseudoclusilis		0	2
Glutinoglossum glutinosum	Slimy Earthtongue	0	6
Hygrocybe aurantiosplendens	Orange Waxcap	2	14
Hygrocybe caliptriformis	Pink Waxcap	2	1
Hygrocybe cantherellus	Goblet Waxcap	2	14
Hygrocybe ceracea	Butter Waxcap	8	83
Hygrocybe chlorophana	Golden Waxcap	3	139
Hygrocybe coccinea	Scarlet waxcap	3	47
Hygrocybe colemanniana	Toasted Waxcap	0	2
Hygrocybe conica	Blackening Waxcap	1	5
Hygrocybe glutinipes	Glutinous Waxcap	0	14
Hygrocybe insipida	Spangle Waxcap	0	107
Hygrocybe irrigatus	Slimy Waxcap	0	1
Hygrocybe laeta	Heath Waxcap	16	148
Hygrocybe marchii		0	4
Hygrocybe pratensis	Field Waxcap	0	10
Hygrocybe psittacina	Parrot Waxcup	22	62
Hygrocybe punicea	Crimson Waxcap	68	29
Hygrocybe russocoriacea	Cedarwood Waxcap	3	2
Hygrocybe splendidissima	Splendid Waxcap	39	14
Hygrocybe substrangulata		6	5
Hygrocybe virginea	Snowy Waxcap	19	58
Lepiota oreadiformis		0	2
Lycoperdon pratense	Meadow puffball	1	0
Mycena aetites	Drab Bonnet	1	2
Mycena pura	Lilac Bonnet	0	1
Mycena olivaceomarginata	Brownedge Bonnet	2	
Mycena sp.	Bonnet sp.	0	1
Panaeolus acuminatus	Dewdrop Mottlegill	0	3
Panaeolus foenisecii	Brown Mottlegill	176	250
Panaeolus papilionaceus	Petticoat Mottlegill	0	23
Psilocybe fimetaria		0	2
Psilocybe coprophila		0	5
Psilocybe semilanceata	Liberty Cap	0	64
Rickenella fibula	Orange Mosscap	0	1
Stropharia caerulea	Blue Roundhead	0	1
Stropharia pseudocyanea	Peppery Roundhead	0	12
Stropharia semi-globata	Dung Roundhead	0	1
Totals of fruit bodies found		**404**	**1207**
Totals of species recorded		**23**	**46**
CHEG species totals			
Club Fungi (C)		0	5
Waxcaps (H)		14	20
Pink Gills (E)		3	3
Earthtongues (G)		0	1
CHEG score		**17**	**29**