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Key: *Psathyrella* – non-European species

Last update: 15.10.17

Updated: 18.03.15 (first provisional version created), 01.04.15 (A 1/1* changed, *P. griseola* excluded, different sequence from A18), 03.04.15 (drawings added), 04.05.15 (*P. cineraria* = *Coprinopsis*), 08.02.16 (data at *P. copriniceps* changed, different sequence from A 13), 25.02.16 (some data changed: *P. glaucescens*, *P. efflorescens*, *P. efflorescens* deleted from part B, different sequence from B13, *P. armeniaca* integrated in part A, different sequence from A15, *P. tiarella* integrated in part A, different sequence from A21), 26.02.16 (*P. pusilla*, *P. naivashaiensis* added, different sequence from A1, *P. magambica*, *P. moshiana*, *P. ovaticystis*, *P. usambarensis* added, different sequence from B13), 17.03.16 (*P. floccosa*, *P. singeri*, *P. tuberculata*, *P. vanhermanii* added, different sequence in part A), 13.01.17 (*P. aequatoriae*, *P. secotioides*, *P. marthae*, *P. nothomyrciae* added, different sequence from A15), 14.01.17 (*P. hesleraffinis*, *P. moseri*, *P. subconocyboides*, *P. subprona*, *P. patagonica*, *P. tilcariensis*, *P. apora*, *P. dactylocystis*, *P. subandina*, *P. polycystidiosa*, *P. fascicularis*, *P. acutissima*, *P. tristis*, *Cystoagaricus squarrosiceps* added, different sequence from B11), 17.04.17 (*P. pallidispora*, *trigonospora* added, different sequence from A26 and B10, many changes from A26), 01.08.17 (*P. striatoannulata* added, different sequence from B16), (*P. cacao* und *P. albipes* added, different sequence from A1*, *P. oboensis* added, different sequence from B18*), 15.10.17 (*P. subspadiceogrisea* added, different sequence from B22*).

Preface:

Not included are *P. gramina* KALAMEES (Uzbekistan), *P. badhyzensis* KALAMEES (Turkmenistan), the most species described in SMITH (1972), *P. aculeata* PATRICK & BARROWS (USA, New Mexico), *P. aspenensis* MITCHEL & A. C. SM. (USA), *P. segregis* SINGER (USA), as well as numerous species whose description has not yet been seen.









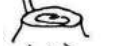





The following species were omitted, because the descriptions are present, but the data are too sparse.

P. janauariensis SINGER: C. -15 mm broad. Sp. 6,7-7,5 (-8,2) x 4,3-4,8 µm, ellipsoid, ovoid, laterally slightly phaseoliform. Ch. ca. 23 x 8 µm, utriform. Pl. unclear. Dead wood and leaf litter, forest ("Várzea forest"), Brazil.
P. plumigera (BERK. & M. A. CURTIS) A. C. SM.: C. -12 mm broad. V. white, scaly. Sp. 8-9 x 4,5-5 µm, becoming hyaline in KOH. No further data. Pieces of wood, Cuba.

Used abbreviations:

C. = cap, Ch.= cheilocystidia, L. = lamellae, Pl. = pleurocystidia, P. = Psathyrella., Sp. = spores, St. = stipe, V. = veil, Syn. = synonym(s)

Used symbols:

					H₂O +	- H₂O	N₂ +	+ KOH
Sp. hyaline	Sp. very bright	Sp. moderately bright	Sp. dark (subopaque)	Sp. black (opaque)	wet	dry, drying	dung, fertilized	in KOH
								
soil, litter	sandy soil	buried wood	stumps	unclear	L.edge white	L.edge pinkish	without clamps	Pl. absent

1 Pleurocystidia absent.

A

1* Pleurocystidia present.

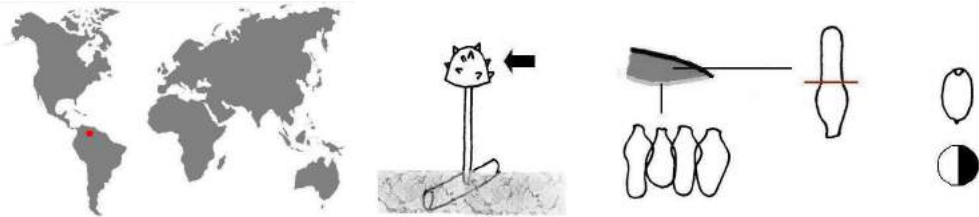
B

A – Pleurocystidia absent

1 Maximum spores length < 10 µm.

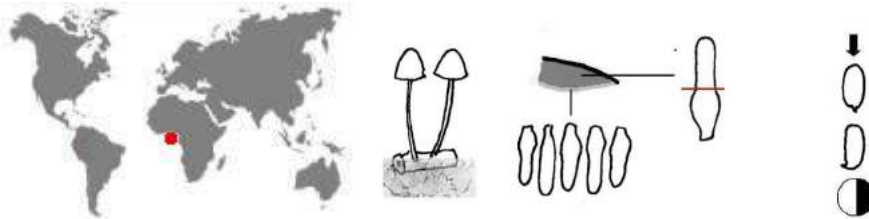
2

- 1* **Maximum spores length $\geq 10 \mu\text{m}$.** 28
- 2 (1) **Spores maximum length $7,5 \mu\text{m}$.** 3
- 2* **Spores longer.** 11
- 3 (2) **Cap up to 15 mm broad.** 4
- 3* **Cap up to 30 mm broad.** 8
- 4 (3) **Cheilocystidia mostly utriform.** 5
- 4* **Cheilocystidia only clavate.** 6
- 5 (3) **Veil as white pyramidal warts.**
 C. -9 mm broad. Sp. $5-7 \times 4-5 \mu\text{m}$, ovoid, reddish. Ch. $25-35 \times 11-16 \mu\text{m}$, utriform. Dead wood, Venezuela.



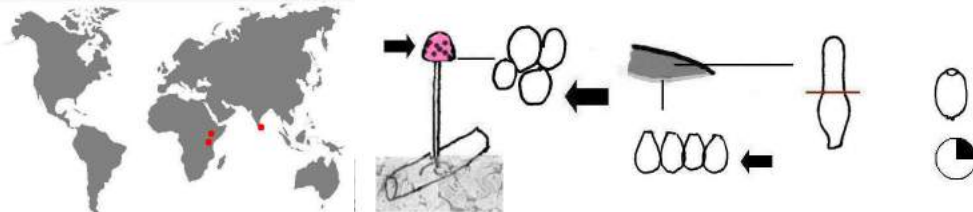
P. acutisquamosa DENNIS

- 5* **Veil absent.**
 C. -15 mm broad. Sp. $5,7-6,8 \times 3,5-4,8 \mu\text{m}$. Ch. $16,5-29 \times 8-12 \mu\text{m}$. Dead wood, banana remnants, São Tomé.



P. cacao DESJARDIN & B. A. PERRY

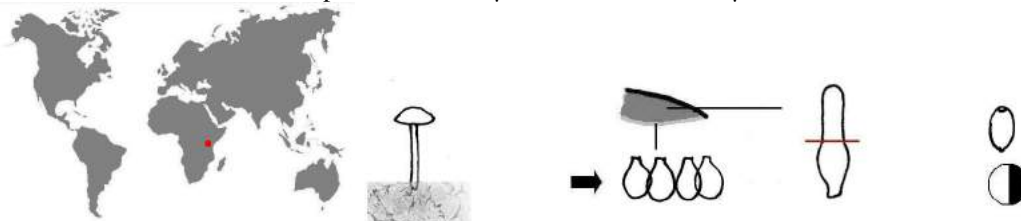
- 6 (4) **Spores pale, cap with pinkish tones.**
 C. -10 mm broad, rarely larger, gray with a shade of pink, V. white and granular, volatile. Sp. $5,5-7 \times 3,7-5 \mu\text{m}$, ellipsoid, amygdaloid, ovoid, subglobos, pale yellowish brown. Ch. only clavate. Dead wood, Sri Lanka, Tanzania, Uganda.



P. efflorescens (BERK. & BROOME) PEGLER
 (Syn.: *Psathyra asceva* (BERK. & BROOME) SACC.)

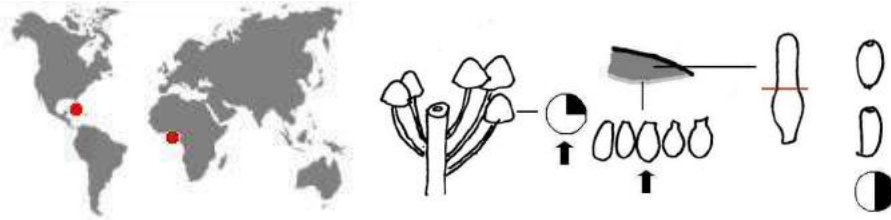
- 6* **Spores darker, cap without pinkish tones.** 7

- 7* (6) **Cap young white, later grey.**
 C. -15 mm broad. V. absent. Sp. $5-6 \times 3,5-4,7 \mu\text{m}$. Ch. $13-18 \times 9-11 \mu\text{m}$. Soil, dead wood, Tanzania.



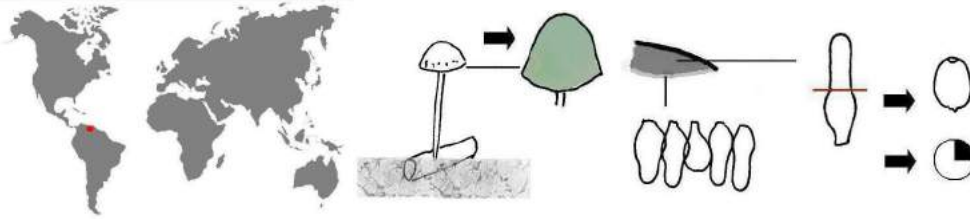
P. pusilla PEGLER

- 7* **Cap white, pale yellowish or orange grey.**
 C. -10 mm broad. V. very sparse. Sp. 6-7,2 x 4-5,2 μm. Ch 19-32 x 9-13 μm. Dead wood, Jamaica, São Tomé.



P. albipes (MURILL) A. H. SM.

- 8 (3) **Cap with olive shades.**
 C. -50 mm broad. V. white, fibrillose. Sp. 5-6 x 3-4,5 μm, ovoid, pale purplish brown, Ch. 25-42 x 12-30 μm, utriform. Clavate cells also present. Dead wood, soil, in forests, Uganda, Venezuela.

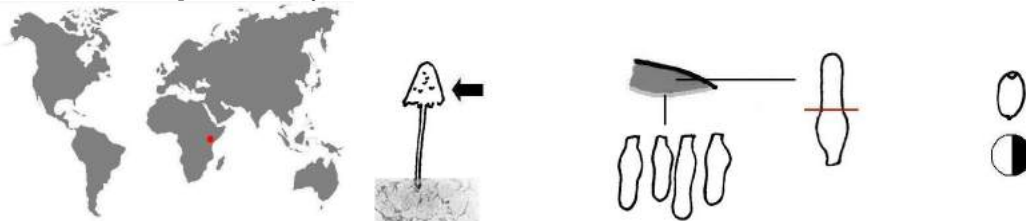


P. glaucescens DENNIS

- 8* **Cap without olive shades.**

9

- 9 (8) **Cap sharply conical.**
 C. -25 mm broad. V. distinct. Sp. 6,5-7,5 x 4,5-5,3 μm. Ch. 30-42 x 8-14 μm. Roots and litter of *Acacia xanthophloea*, Kenya.

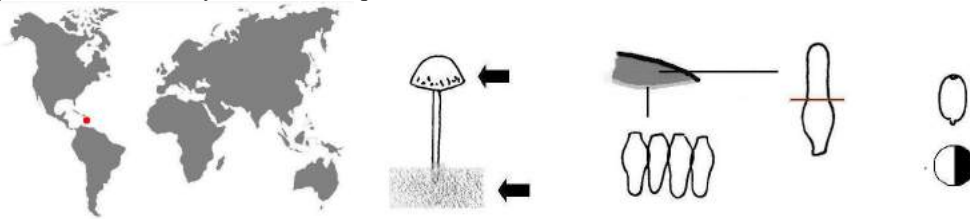


P. naivashaiensis PEGLER

- 9* **Cap flatter.**

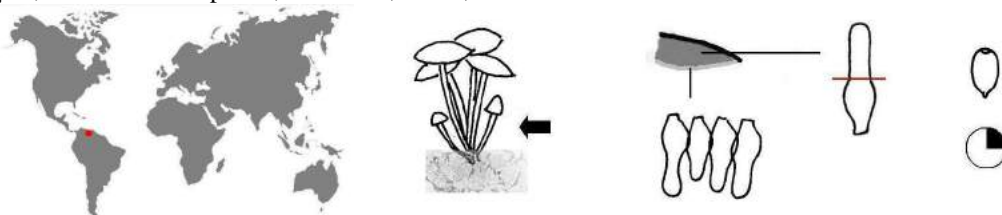
10

- 10 (9) **Veil pale gray.**
 C. -30 mm broad. V. sparse. Sp. 5-7 x 3-4,5 μm, ovoid, ellipsoid, pale reddish brown. Ch. 20-30 x 8-12 μm, utriform. Sandy soil, Martinique, Trinidad.



P. erinensis DENNIS

- 10* **Veil not so.**
 C. -30 mm broad. V. visible only young. Sp. 6-6,5 x 3,5-4 μm, ellipsoid, pale brown. Ch. 25-40 x 12-15 μm, ventricos. Caespitose, terrestrial, forest, Venezuela.

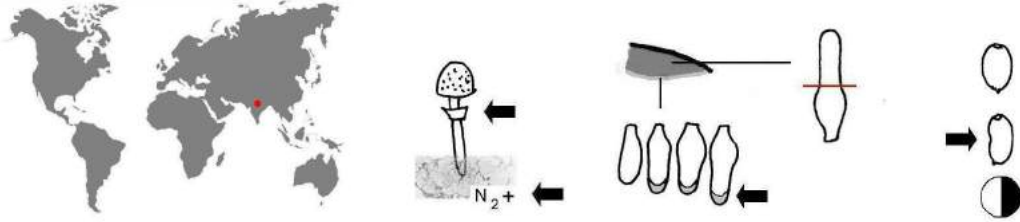


P. avilana DENNIS

11 (2) Stipe with annulus. 12

11* Stipe without annulus. 15

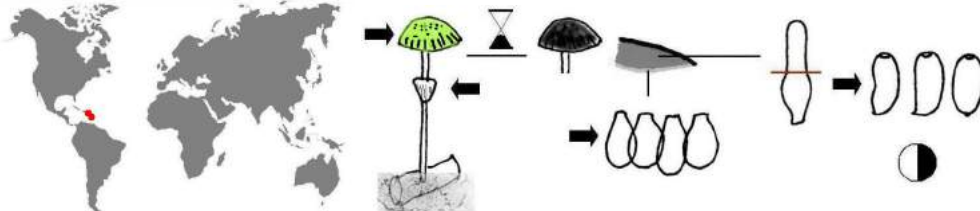
12 (11) Cheilocystidia apically often filled with amorphous, in Congo red colorable substance.
C. -30 mm broad. V. whitish to brownish, flaky. Sp. (5,7-) 7,5-8 x 3,1-3,8 (-5), fading in KOH. Ch. 22-37,4 x 19,5-14,4 (-16,5) μm , utriform, sublageniform, lageniform, sometimes subcapitate. Dung, India.



P. fimicola ATRI, MUNCHURI KAUR & AMANDEEP KAUR

12* Cheilocystidia otherwise. 13

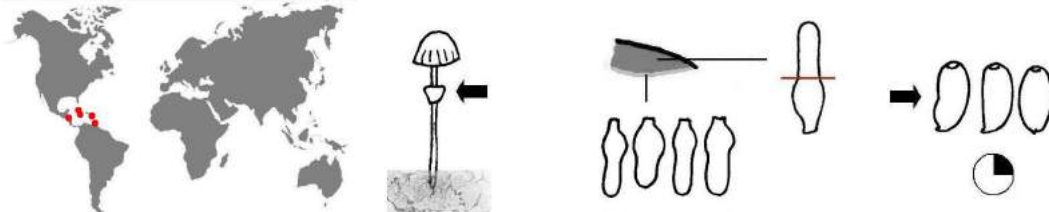
13 (12) Cap greenish, Cheilocystidia only clavate.
C. -40 mm broad, young greenish. V. distinct, roundish patches. St. with persistent annulus. Sp. (5,5-) 6-8 x (3-) 4-4,6 μm . Ch. 16-32 x 9-12 μm . Dead Wood, Guadeloupe, Martinique.



P. tuberculata (PAT.) A. H. SMITH

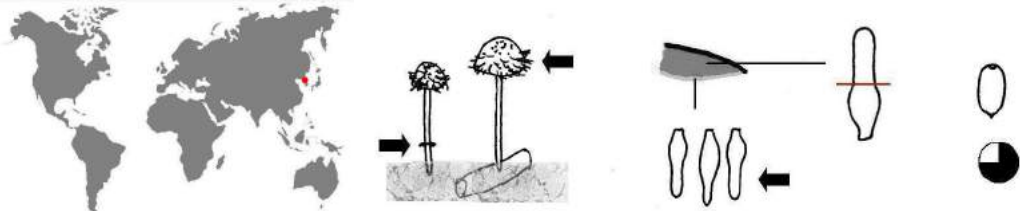
13* Cap and cheilocystidia otherwise. 14

14 (13) St. with persistent annulus, veil made of globose cells.
C. -50 mm broad. V. brownish, volatile. Sp. 6-8 x (2-) 3-4,5 μm . Ch. 23-45 x 8-17 μm , utriform, lageniform, ventricose fusoid. Soil, Costa Rica, Cuba, Jamaica, Martinique, Trinidad, India (?).



P. vanhermanii A. H. SM.

14* St. with deep annular zone, veil otherwise.
C. -35 mm broad. V. distinct. St. young with annular zone. Sp. 7,3-8,2 x 4,1-4,7 μm , germ pore partly indistinct. Ch. 38,2-41 x 11,8-13,7 μm , utriform. Humus, pieces of wood in forests, Korea.



P. pervelatoid S. J. SEOK & Y. S. KIM

15 (11) Spores without germ pore. 16

15* Spores with germ pore, but sometimes indistinct. 21

16 (15) Cap up to ca. 30 mm broad. 17

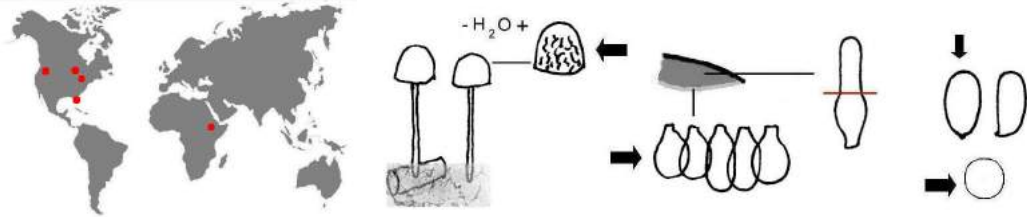
16* Cap up to ca. 60 mm broad. 20

17 (16) Spores very pale. 18

17* Spores darker. 19

18 (17) Spores very pale yellowish brownish, cap up to 30 mm broad.

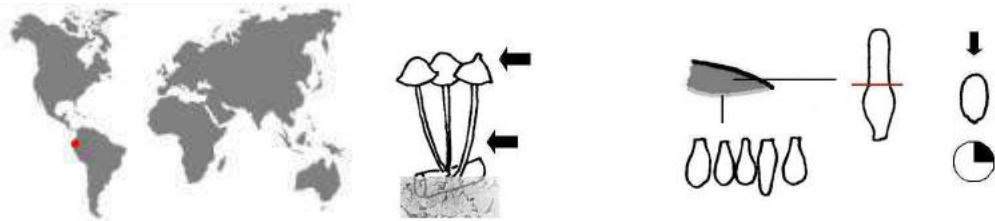
V. minimal. Sp. 6-8 (-9) x 3,8-5 (-5,5) μm . Ch. 18-35 x 7-22 μm , mostly clavate or subcylindrical. Soil, dead wood, Ethiopia, USA.



P. singeri A. H. SM.

18* Spores grey to pale brownish, cap up to 15 mm broad.

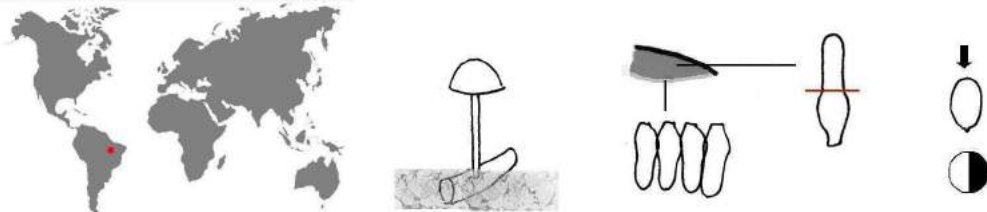
C. often with papilla. V. unknown. Sp. 7-8 x 4-5 μm . Ch. 13-32 x 7,5-17 μm , variously clavate. Caespitose on dead wood, Ecuador.



P. aequatoria SINGER

19 (17) Spores with callus, cheilocystidia hyaline.

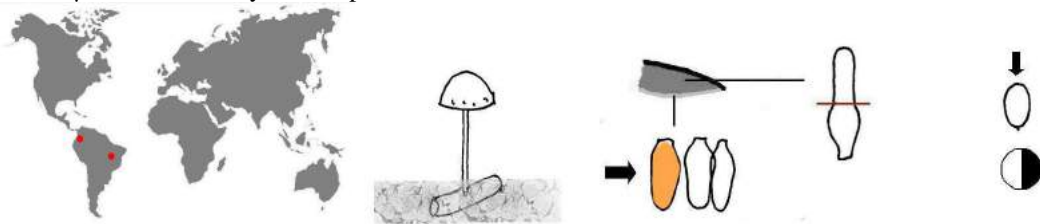
C. -30 mm broad. V. absent. Sp. 7-8,7 x 4,7-5,7 μm , ellipsoid. Ch. 28,5-40 x 8,5-14,3 μm , utriform. Dead hardwood, Brazil.



P. lignatilis SINGER

19* Spores without callus, cheilocystidia partly pale brownish.

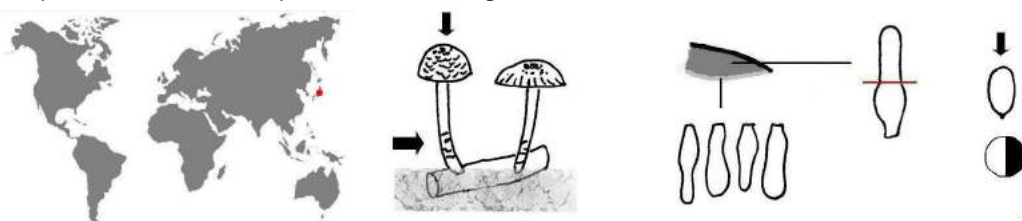
C. -33 mm broad. V. sparse. Sp. 7-9 x 4-5 μm , ellipsoid, pale brownish to gray brownish. Ch. 20-35 x 8,5-15 μm , vesiculos, hyaline to pale brownish. Dead wood, Colombia, Brazil.



P. argillospora SINGER

20 (15) Cheilocystidia utriform.

C. -60 mm broad. V. young strongly developed, grey, rapidly disappearing. St. base scaly. Sp. 6,5-8,5 x 4-5 μm . Ch. 25-50 x 5-18 μm . Dead wood, Japan.

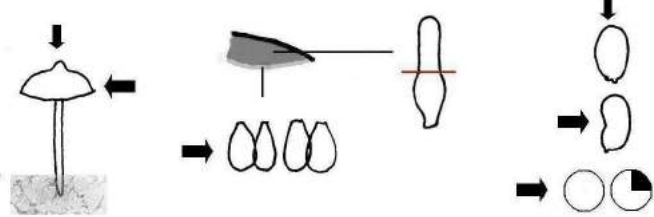


Coprinopsis cineraria (HAR. TAKAHASHI) ÖRSTADIUS & E. LARSS.
(Syn.: *P. cineraria* HAR. TAKAHASHI)

20*

Cheilocystidia clavate.

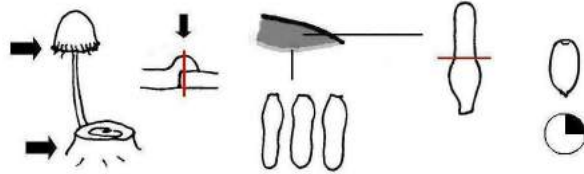
C. -60 mm broad. V. unknown. Sp. (6-) 7-9 x (4-) 4,5-5 μm, ellipsoid, amygdaloid, laterally phaseoliform, pale yellowish. Ch. 25-35 x 12-13 μm, saccat, clavate. Terrestrial, South Africa.



P. varicosa A. PEARSON

21 (15) Clamps absent.

C. -30 mm broad. Sp. 5-8 x 3,5-6 μm, ellipsoid. Ch 21-40 x 8-14 μm, utriform to lageniform. Terrestrial, dead wood, China?, Guadeloupe, Martinique, Venezuela.



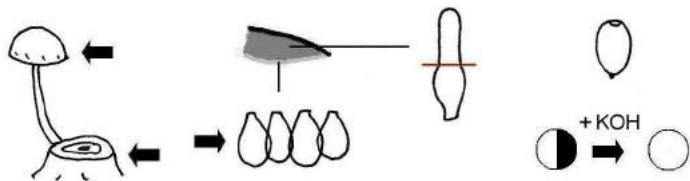
P. araguana DENNIS

21* Clamps present.

22

22 (21) Spores becoming hyaline in KOH.

C. -30 mm broad, with purple color, dry white. V. sparse. Sp. 7-8 x 4-5 μm, ellipsoid, ovoid, truncat, in KOH brown, later almost hyaline. Ch. 22-28 x 9-14 μm, clavate. Stumps of *Roystonea*, Cuba, Mexikco.



P. roystoniae (EARLE) A. C. SM.

22* Spores not so.

23

23 (22) Cheilocystidia only clavate.

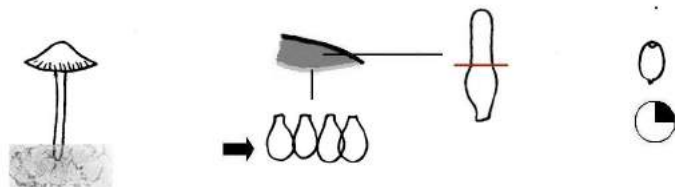
24

23* Cheilocystidia not only clavate.

26

24 (23) Spores strikingly pale.

C. -60 mm broad. V. ? Sp. 6,5-8 x 4,5-5,5 μm. Debris, Tansania.



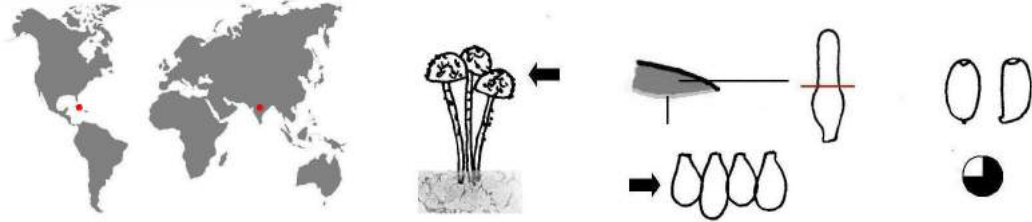
P. armeniaca PEGLER

24* Spores not strikingly pale.

25

25 (24) **Velum strongly developed.**

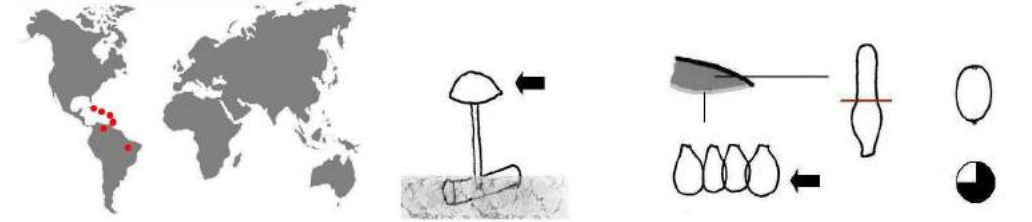
C. -40 mm broad. Sp. 6-8 x 4-5 μm . Ch. 18-30 x 11-15 μm , clavate, cylindrical. Soil, Cuba, India.



P. floccosa (EARLE) A. H. SM.

25* **Veil absent.**

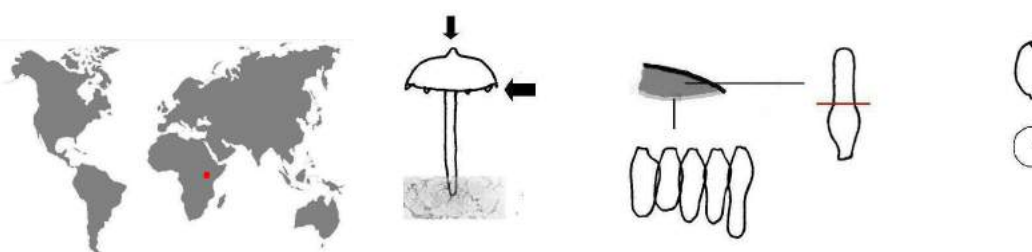
C. -25 mm broad. Sp. 6-8,5 x 3,5-4,8 μm , ellipsoid, germ pore small, sometimes absent. Dead wood, Brazil, Dominica, Guadeloupe, Haiti, Cuba, Martinique, Trinidad, Venezuela.



P. copriniceps (BERK. & M. A. CURTIS) DENNIS

26 (23) **Spores pale brownish, germ pore indistinct.**

C. -50 mm broad. V. young at C.margin distinct. Sp. 5,5-8,5 x 3,7-5,2 μm , ellipsoid. Ch. 13,5-34 x 8,5-11,5 μm , crowded. Leaf litter, Uganda.



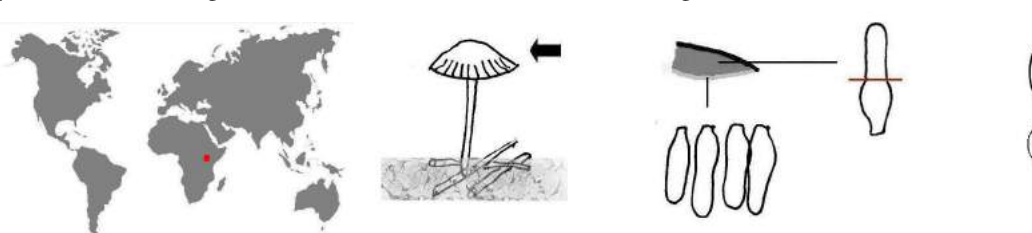
P. atroumbonata PEGLER

26* **Spores darker, germ pore distinct.**

27

27 (26) **Spores reddish brown.**

C. -50 mm broad. V. unknown, probably absent. Sp. 7,5-9,2 x 4-5,5 μm , ellipsoid. Ch. 21-35 x 7-10,5 μm , utriform, sublageniform, clavate. Terrestrial, dead wood, Uganda.



P. glandispora PEGLER

27*

Spores sepia.

C. -42 mm broad. V. white and volatile. Sp. 7,3-8,2 x 4,8-5,3 μm, ellipsoid to ovoid. Ch. 26-34 x 9,7-14 μm, ventricos to lageniform. Terrestrial between grass, Argentina.



P. riparia SINGER

28 (1) Cap sharply conical.

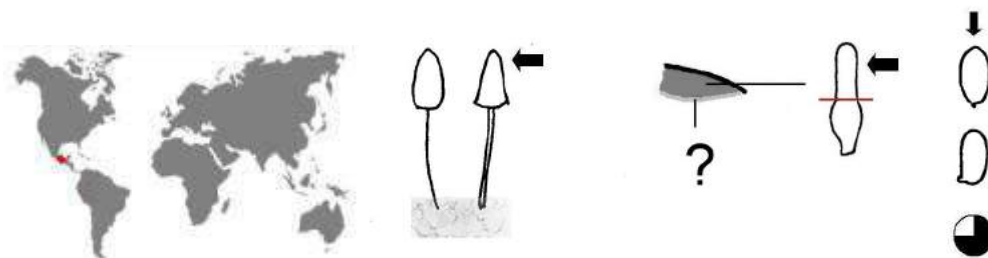
29

28* Cap otherwise.

31

29 (28) Spores up to 12 μm long, germ pore absent.

C. -5 mm broad. V. sparse. Sp. 9,5-12 x 6-8 μm. Ch. unknown. Soil, Mexico.



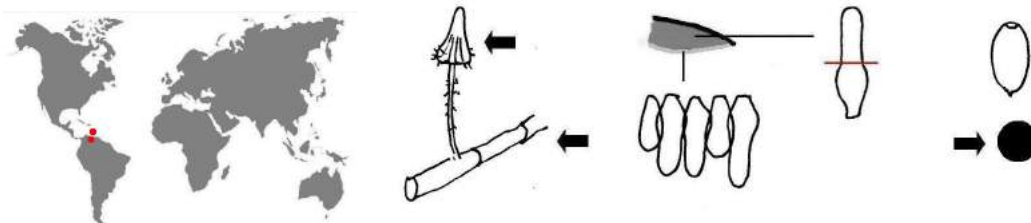
P. secotioides G. MORENO, HEYKOOP, ESQUEDA & OLARIAGA

29* Spores longer, germ pore present.

30

30 (29) Spores up to 9,5 μm broad, black brown.

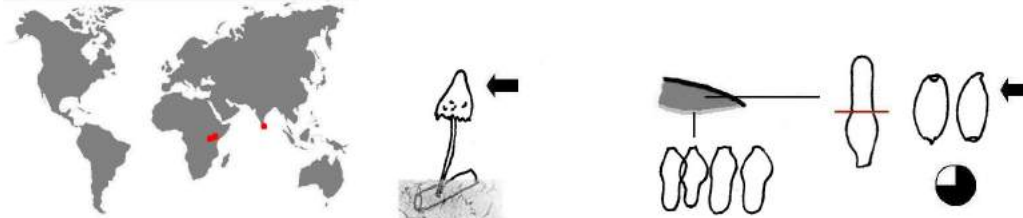
C. -20 mm broad, strikingly conical. V. volatile. Sp. 13-17 x 6-9,5 μm, oblong ovoid, ellipsoid, truncat. Ch. 30-50 x 11-17 μm, ventricos cylindrical, utriform to lageniform. Soil, banana leaves and stumps, bamboo stems, Martinique, St. Vincent, Venezuela.



P. myceniformis DENNIS

30* Spores up to 8 μm broad, red brown.

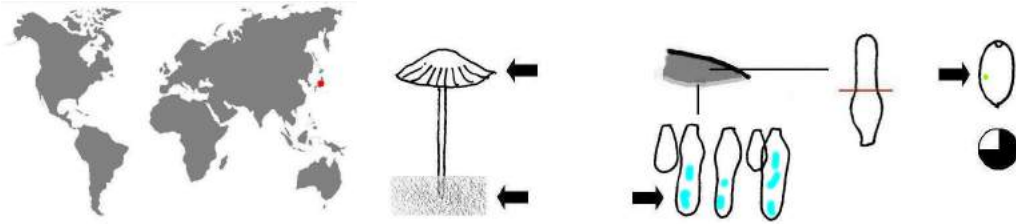
C. -15 mm broad, strikingly conical. V. distinct. Sp. 11,5-15 x 5-8 μm, oblong ovoid, ellipsoid, truncat, often with suprahilar depression, red brown. Ch. 30-45 x 13-45 μm, utriform, lageniform. Plant remnants, Sri Lanka, Kenya, Tanzania.



P. tiarella (BERK. & BROOME) SACC.

31 (28) Cheilocystidia often with blue-green deposits.

C. -95 mm broad. V. sparse. Sp. 10-13,5 x 5-6,5 µm, red brown. Ch. 27-57 x 9-17 µm. Sandy soil with leaf litter, Japan.



P. turcosomarginata HOASHI

31* Cheilocystidia without deposits.

32

32 (31) Spores up to 11,5 µm long.

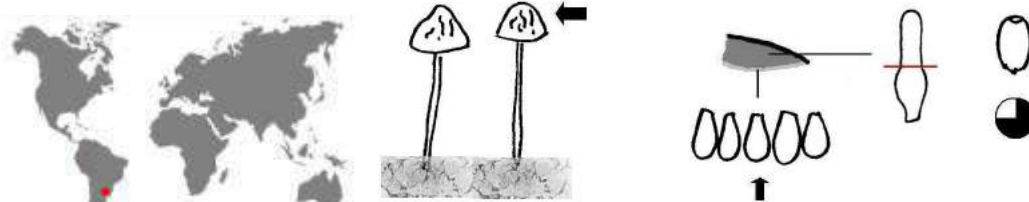
33

32* Spores longer.

35

33 (32) Cheilocystidia only clavate.

C. -25 mm broad, rugulose. V. sparse. Sp. 10,7-11,3 x 6,5-7,3 µm. Ch. 23-35 x 10,3-11,7 µm. Soil, Argentina.



P. marthae SINGER

33* Cheilocystidia utriform.

34

34 (33) Cheilocystidia not capitate.

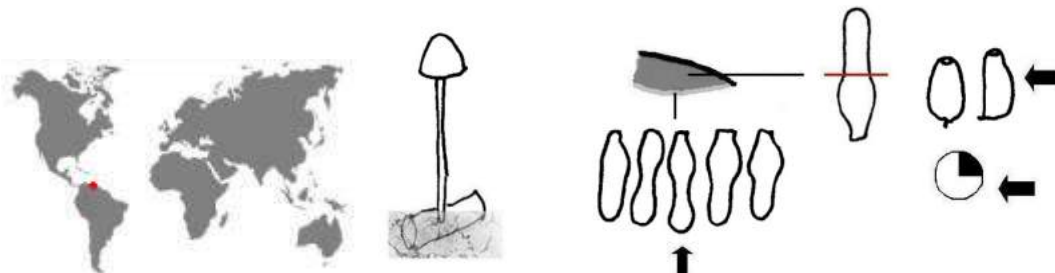
C. -20 mm broad. V. absent. Sp. 6-10 x 4-5 (-5,5) µm, ovoid. Ch. 22-35 x 11-14, ventricos. Tree stumps, China?, Venezuela.



P. albocapitata DENNIS

34* Cheilocystidia often capitate.

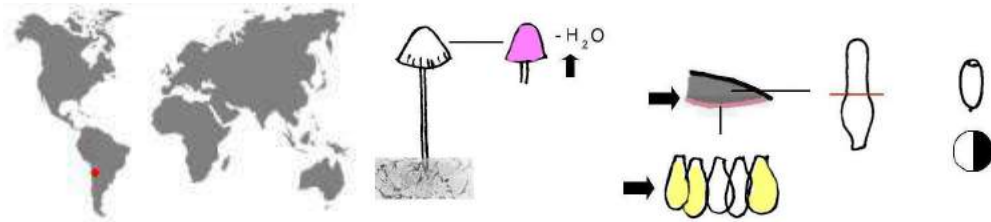
C. -12 broad. V. sparse. Sp. 8-11 x 4-5,5 µm, ovoid. Ch. 30-40 x 8-12 µm. Dead wood, palm stems, Trinidad.



P. pallidispora DENNIS

35 (32) **Lamellae edge pinkish.**

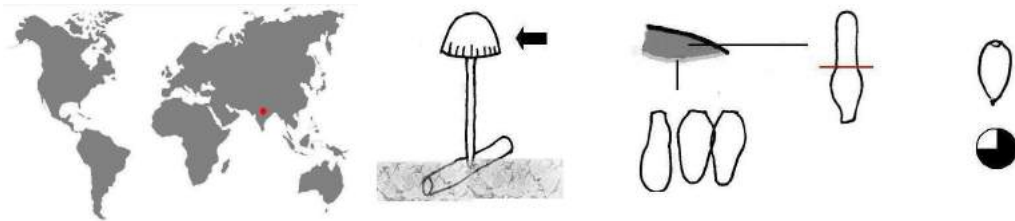
C. -25 mm broad. V. absent. Sp. 13,5-15,5 x 6,5-8 µm. Ch. 13-30 x 9-25 µm, clavate, sometimes yellowish. Soil, Chile.



P. nothomyrciae SINGER

35* **Lamellae edge white.**

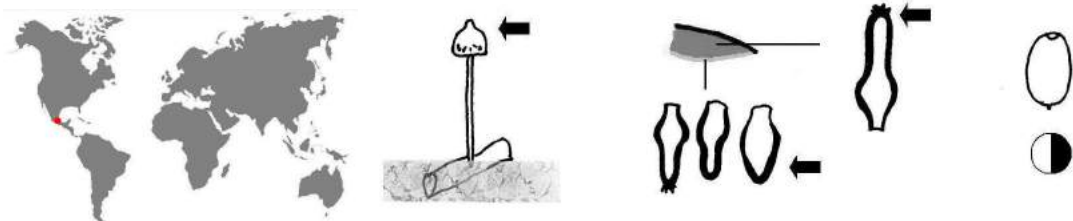
C. -30 mm broad. Sp. 12-15 x 5-7 µm, ellipsoid. Ch. 21-28 x 8-20 µm, vesiculos, utriform, Dead wood, India.



P. pruinosa RAWLA

B – Pleurocystidia present

- | | | |
|----|---|----|
| 1 | Pleurocystidia distinctly thickwalled. | 2 |
| 1* | Pleurocystidia thinwalled or unobtrusively thickwalled. | 10 |
| 2 | (1) Spores maximum length 7,5 µm. | 3 |
| 2* | Spores longer. | 6 |
| 3 | (2) Tiny species. | |
| | C. -5 mm broad. V. sparse. Sp. 6,2-7 x 4,5-5 µm, ellipsoid to ovoid or amygdaliform, brown. Ch. similar to the pl., with thinner walled and smaller. Pl. 39-62 x 10-20 µm, thick-walled, apex with crystals. Dead wood, Mexico. | |

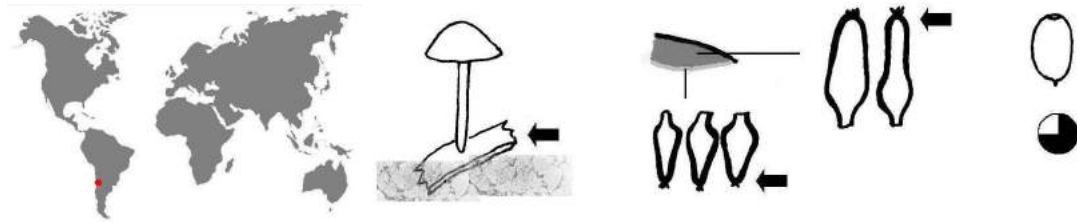


P. crinipellis SINGER

- | | | |
|----|------------------------|---|
| 3* | Larger species. | 4 |
|----|------------------------|---|

4 (3) **Veil absent.**

C. -20 mm broad. Sp. 5,5-6(-6,5) μm , ellipsoid to ovoid, ocher black, germ pore small. Ch. 20-35 x 9-15 μm , walls slightly thickened, apex with crystals. Pl. similar to the ch. An old bark residues, Chile.



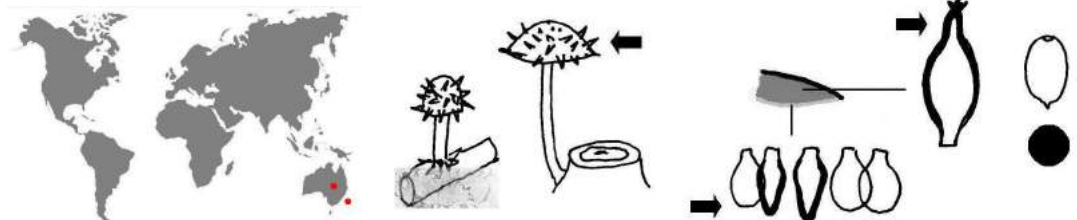
P. chiloensis SINGER

4* **Veil present.**

5

5 (4) **Veil spreading squarrose.**

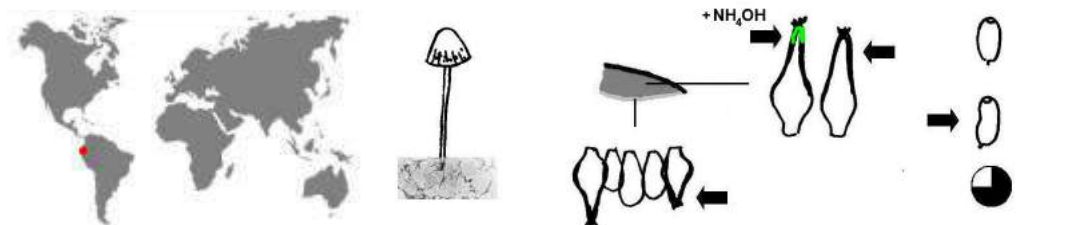
C. -45 mm broad. V. strongly developed, ocher-brown. Sp. 5,5-6,5 (-7) x 3,5-(4), dark brown, opaque. Ch. 25-40 (-50) x (10-) 12-20 μm , partly with thickened walls. Pl. 30-50 x 13-20 (-25) μm , Walls thickened, partly with crystals. Dead wood, Australia, New Zealand.



P. echinata (CLELAND) GRGURINOVIC

5* **Veil otherwise.**

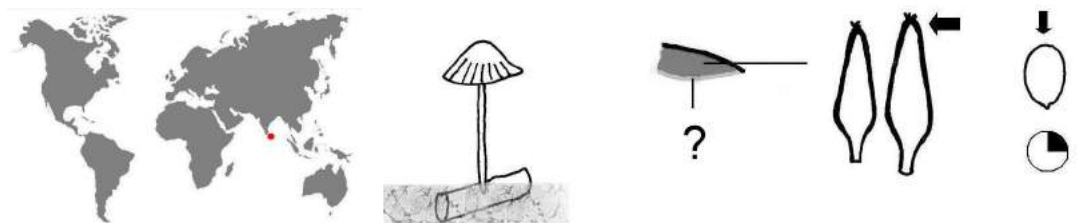
C. -25 mm broad. V. floccose, white. Sp. 7-7,5 x 4-4,5 μm , laterally phaseoliform. Ch. similar to the pl., smaller. Pl. 33-61 x 17-23 μm , walls slightly thickened, apically with hyaline encrustations, upper part pale greenish in ammonia. Soil. Ecuador.



P. hesleriaffinis SINGER

6 (2) **Germ pore absent.**

C. -20 mm broad. V. absent. Sp. 8-9 x 5 μm , ellipsoid-amygdaloid, pale yellowish brown. Ch. not mentioned. Pl. 55-80 x 15-20 μm , Walls thickened, often with a few crystals. Dead wood, Sri Lanka.



P. amaura (BERK. & BROOME) PEGLER

6* **Germ pore present.**

7

7 (6) **Cheilocystidia thin-walled.**

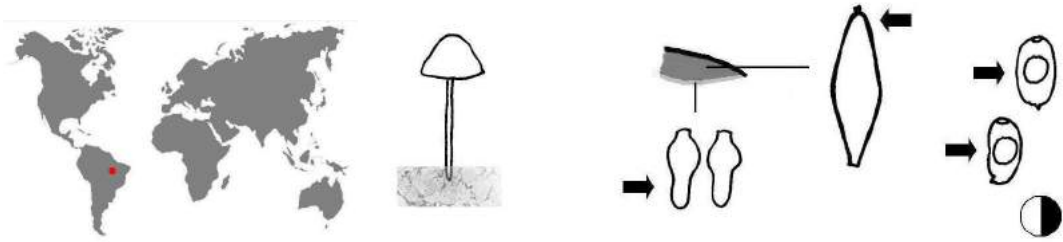
8

7* **Cheilocystidia thick-walled.**

9

8 (7) Spores up to 8 µm long.

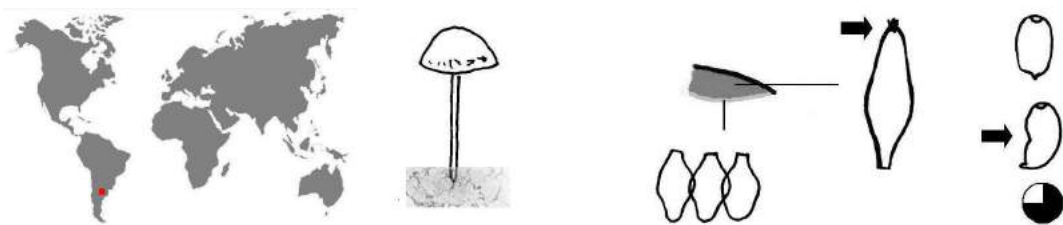
C. -30 mm broad. V. absent. Sp. 6,5-8 x 4-5 µm, ovoid, ellipsoid, laterally sometimes phaseoliform, brown, with a large round oil drop, germ pore distinct. Ch. approximately 30 x 10 µm, versiform, mostly bottle-shaped. Pl. 34-66 x 9-26 µm, fusiform, walls slightly thickened, with crystals. Terrestrial, tropical forest, Brazil.



P. varzeae SINGER

8* Spores up to 10,3 µm long.

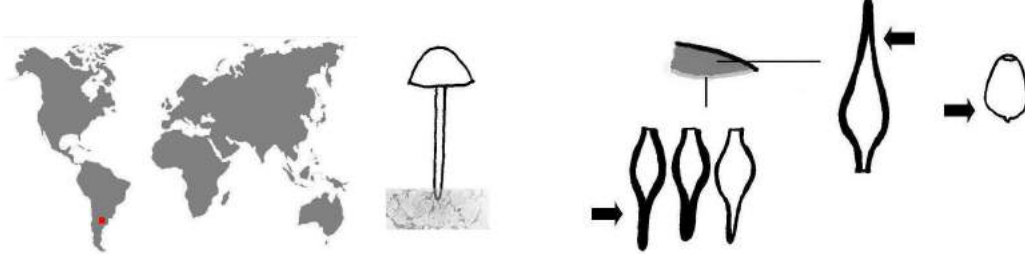
C. -35 mm broad. V. distinct. Sp. 8-10,3 x 4,2-4,5 µm, oblong, mostly with a suprahilar depression, dark reddish brown. Ch. 13-35 x 9-31 µm, vesiculos. Pl. 35-78 x 9,5-20 µm, fusiform, thick-walled, apex with crystals. Terrestrial, leaf litter, Argentina.



P. phaeocystidiata SINGER

9 (7) Spores up to 9,5 µm lang, brownish.

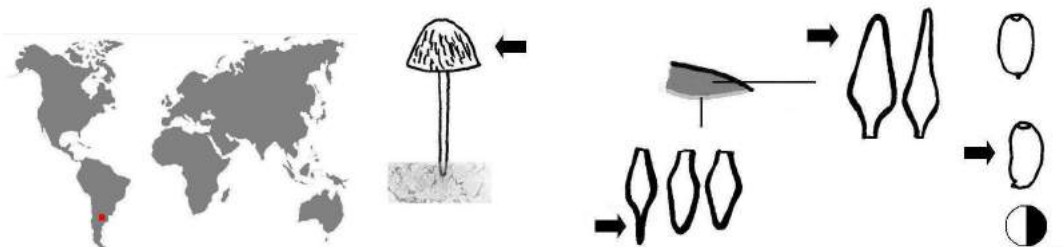
C. without measure. V. unknown. Sp. 8,2-9,5 x 5-5,8 µm. Ch. 60-70 x 8-12 µm, fusiform. Pl. unclear, probably similar to the ch. Habitat unknown, Argentina.



P. fuegiana E. HORAK

9* Spores up to 10,3 µm lang, rötlich graubraun.

C. -50 mm broad, brownish fibrous. Sp. 9-10,3 x 5,5-6,2 µm, ellipsoid, laterally phaseoliform, germ pore small. Ch. similar to the pl., smaller. Pl. 56-95 x 11,5-20,5 µm, fusiform, thick-walled. Terrestrial, Argentina.



P. metuloidophora SINGER

10 (1) Stipe with annulus or annular zone.

11

10* Stipe without annulus or annular zone.

18

11 (10) Spores up to 8,5 µm long.

12

11* Spores longer.

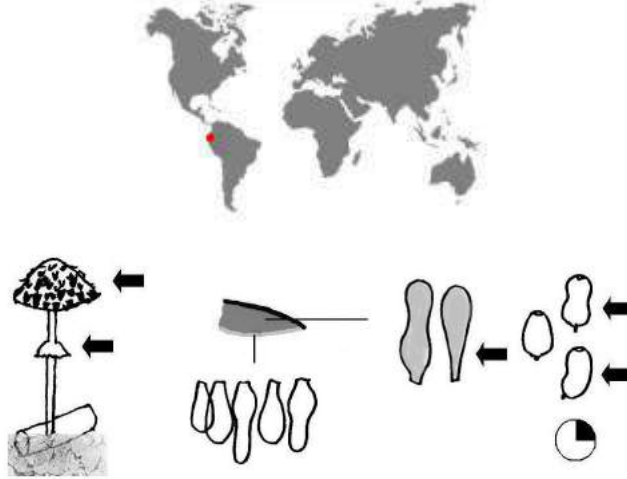
15

12 (11) Spores frontally often with irregular outline or rounded angular. 13

12* Sporen frontally ellipsoid. 14

13 (12) Large species, annulus on the upper part, hanging.

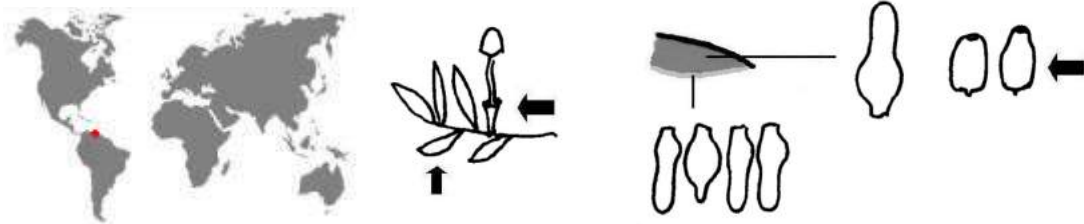
C. -35 mm broad, brown scaly. St. with membranous annulus. Sp. 5,5-6,8 x 3,5-4 µm, rounded-angular subcylindrical, often mitriform, also constricted in the middle, laterally phaseoliform. Ch. similar to the pl., in addition, clavate cells. Pl. 13-56 x 15-17 µm, smoke gray pigmented. Dead wood, Ecuador.



Cystoagaricus squarrosiceps (SINGER) ÖRSTADIUS & E. LARSS.

13* Tiny species, annulus far below, ascending.

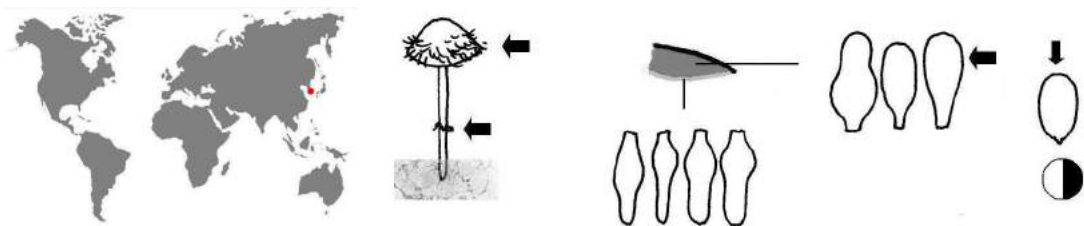
C. -1,5 mm broad. Sp. 5,5-7 x 4-5 µm. Ch. 25-30 x 12-16 µm, utriform. Pl. similar. On bamboo leaves, Trinidad.



P. trigonospora DENNIS

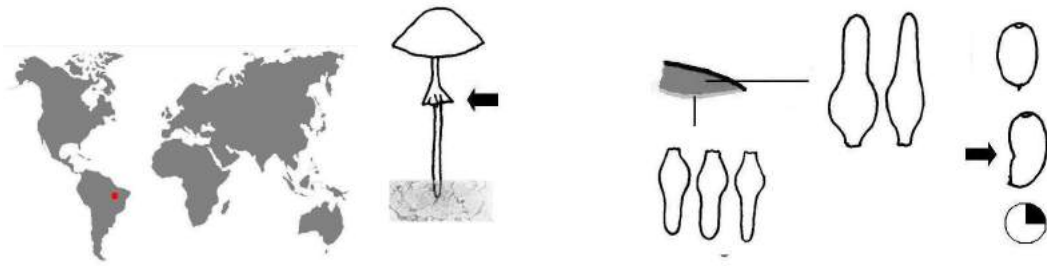
14 (12) Pleurocystidia often clavate.

C. -48 mm broad. V. young strongly developed. St. only young with annular zone. Sp. 7,1-8,2 x 3,2-4,1 µm, germ pore partly indistinct. Ch. 33,8-38,3 x 7,9-12,4 µm, apikally sometimes encrusted. Pl. 22,5-27 x 11,3-15,8 µm. In humus or at residues of cotton plants, Korea.



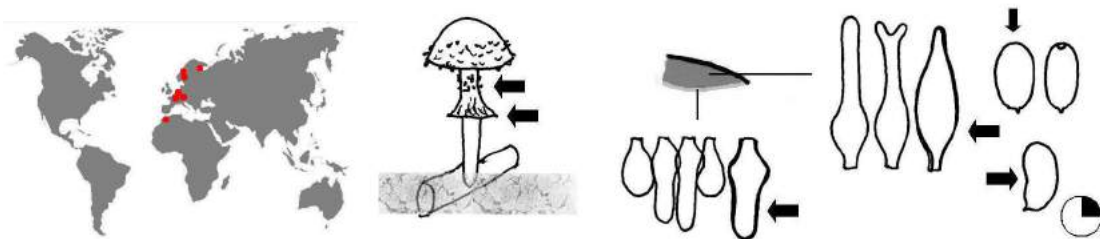
P. koreana S. J. SEOK & Y. S. KIM

- 14* **Pleurocystidia utriform, lageniform.**
 C. -17 mm broad. V. absent. Sp. 7,5-8,5 x 4,5-5 μm , ellipsoid to phaseoliform, pale brown. Ch. similar to the pl., these 25-40 x 7,5-13 μm , utriform to sublageniform, rare. Leaf litter, Brazil.



P. annulosa SINGER

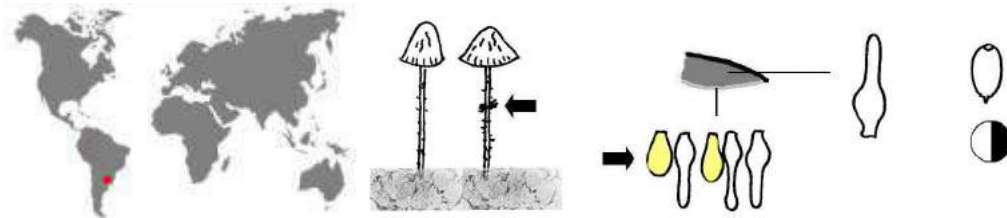
- 15 (11) **Spores pale, germ pore absent or very indistinct.**
 C. -70 mm broad. V. young strongly developed. Sp. (7,5-) 8-10 (-10,7) x 4,3-5,3 (-6) μm , brown. Ch. 25-60 x 8-20 μm . Pl. 45-80 x 10-20 μm , walls sometimes slightly thickened. Litter, dead wood Central and Northern Europe, Morocco.



P. langei (MALENCON) CONTU

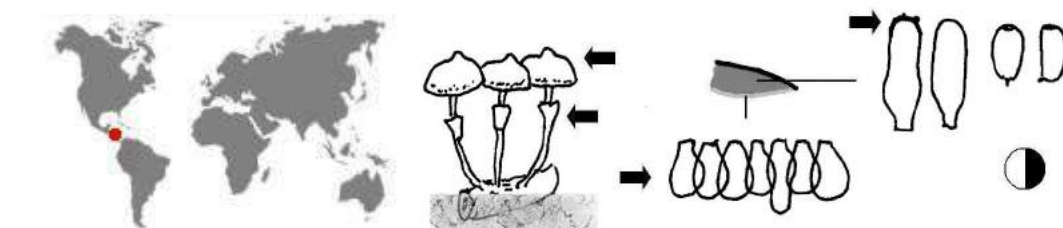
(Syn.: *Psathyrella rostellata* ÖRSTADIUS, *Psathyrella malenconii* FOUCHIER, *Psathyrella longistriata* var. *langei* (MALENCON) NEVILLE & FOUCHIER)

- 15* **Spores darker, germ pore distinct.** 16
 16 (15) **Spores up to ca. 12 μm long.**
 C. -35 mm broad. V. sparse, on the stipe persistent. Sp. 8,5-12 x 5-6,5 (-7) μm . Ch. 27-55 x 8-19 μm . In addition, yellowish clavate cells. Pl. Similar to the Ch. Soil, Argentina.



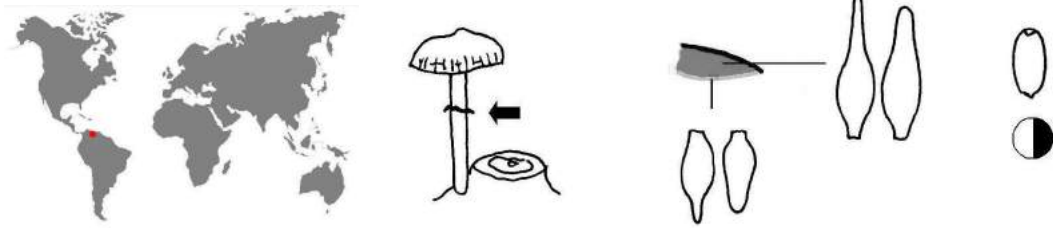
P. subandina SINGER

- 16* **Spores up to ca. 10,5 μm long.** 17
 17 (16) **Pleurocystidia utriform.**
 C. -35 mm broad, umbonated. V. distinct. Stipe with an annulus, upward open. Sp. 7-10 x 4-5,5 μm . Ch. 25-35 x 11-13 μm , rare, clavate cells numerous. Pl. 45-52 x 14-21 μm , sometimes with apikally thickened walls and with deposits. Dead wood, terrestrial, Costa Rica.



P. striatoannulata HEYKOOP, G. MORENO & M. MATA

- 17* **Pleurocystidia lageniform.**
 C. -45 mm broad. V. distinct. Sp. 9,5-10,5 x 5-6 μm, oblong ovoid, truncat. Ch. 60-75 x 12-16 μm, fusoid-ventricos. Pl. 60-75 x 12-16 μm, fusoid-ventricose. Base of tree stumps, Venezuela.

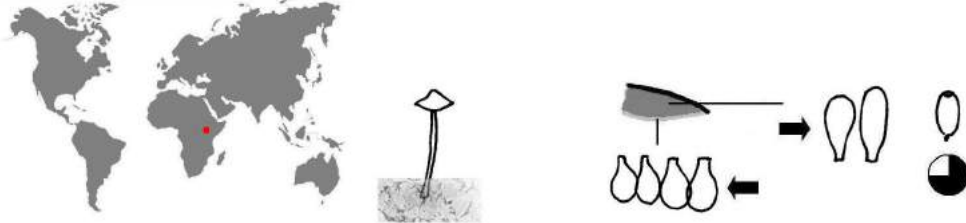


P. aristeguietana DENNIS

- 18 (10) Spores up to 8,5 μm long. 19

- 18* Spores longer. 23

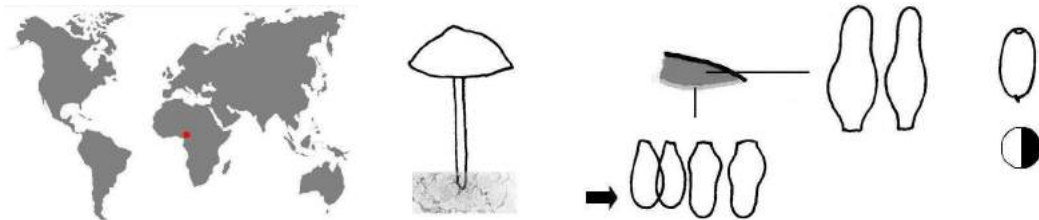
- 19 (18) **Cheilocystidia only clavate.**
 C. -10 mm broad. V. absent. Sp. 6,5-8,5 x 4,2-5,2 μm, ovoid to ellipsoid. Ch. 15-20 x 10-12 μm. Pl. 20-26 x 9-12 μm, ovoid, ellipsoid, subcylindrical. Leaf litter, Uganda.



P. ovaticystis PEGLER

- 19* Cheilocystidia not only clavate. 20

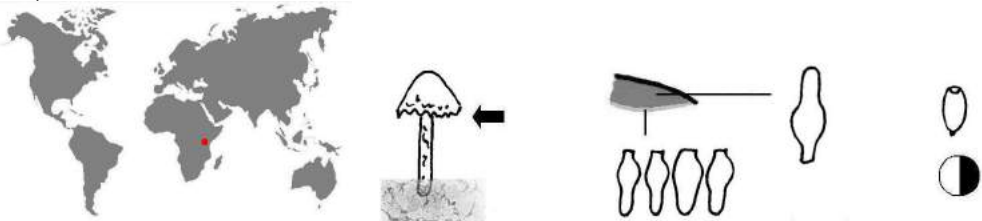
- 20 (19) **Cap up to 85 mm broad.**
 V. absent. Sp. 6,5-8 x 4-5 μm, ovoid to ellipsoid, brown. Ch. 24-35 x 9-15 μm, clavate, utriform, sublageniform, crowded. Pl. 35-45 (-60) x 13-25 μm, ventricos-lageniform, numerous. Terrestrial, between grass, Cameroon.



P. yaoundeana MOSSEBO & PEGLER

- 20* Cap distinctly smaller. 21

- 21 (20) **Veil strongly developed.**
 C. -40 mm broad. Sp. 5,5-7,5 x 3,5-4,5 μm, ovoid to ellipsoid, brown. Ch. 25-32 x 9-13 μm. Pl. 27-40 x 11-14 μm. Leaf litter, Tanzania.

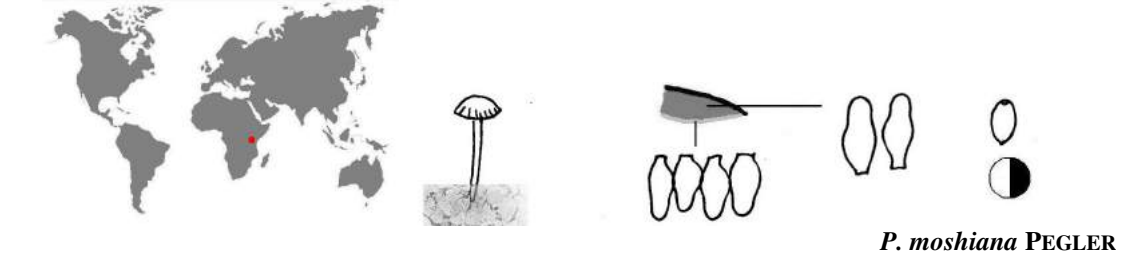


P. magambica PEGLER

- 21* Veil sparse or absent. 22

22 (21) **Cheilocystidia numerous, paracystidia absent.**

C. -30 mm broad. V. absent. Sp. 6-7,2 x 3,2-4,7 μm, ellipsoid, reddish brown. Ch. 24-30 x 12-14 μm. Pl. 22-35 x 10-13 μm. Soil in forest, Tanzania.

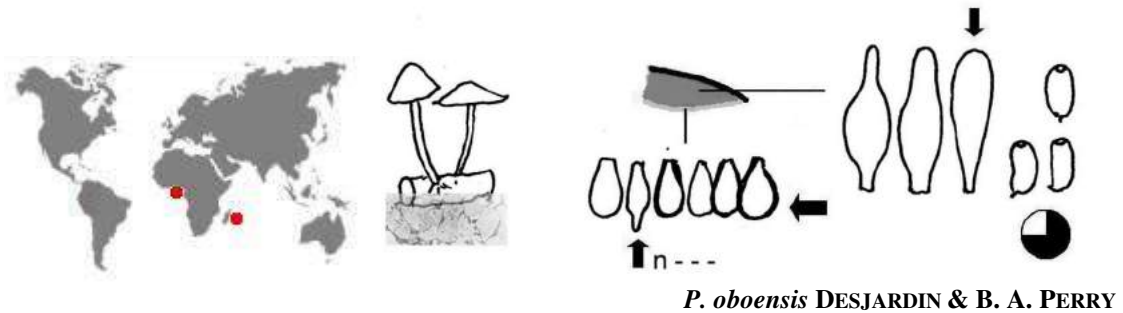


22* **Cheilocystidia rare, paracystidia dominating.**

23

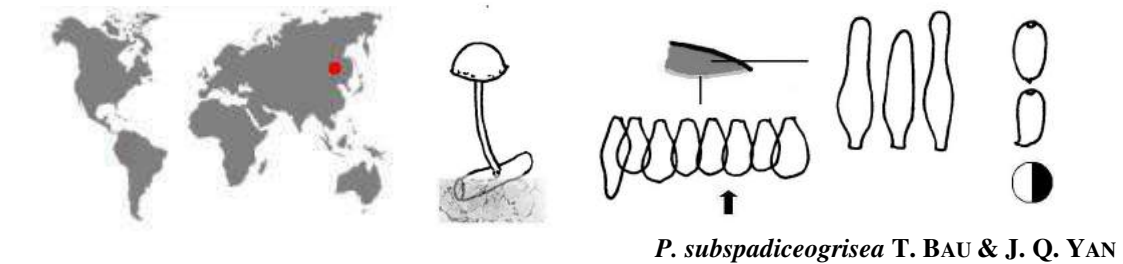
23 (22) **Spores up to 6 μm long, paracystidia often with thickened walls.**

C. -25 mm broad. V. sparse. Sp. 5-6 x 2,5-3,8 μm. Ch. 22-30 x 8-9,5 μm, very rare. Pl. 18-35,5 x 7,5-15 μm. Dead wood, La Réunion, São Tomé.



23* **Spores longer, paracystidia thin-walled.**

C. -25 mm broad. V. sparse. Sp. 6,3-7,8 x 3,9-4,9 μm. Ch. 22-37 x 10-12 μm, rare. Pl. 37-60 x 10-15 μm. Dead wood, China.



24 (18) **Pleurocystidia often with 2-3 protuberances.**

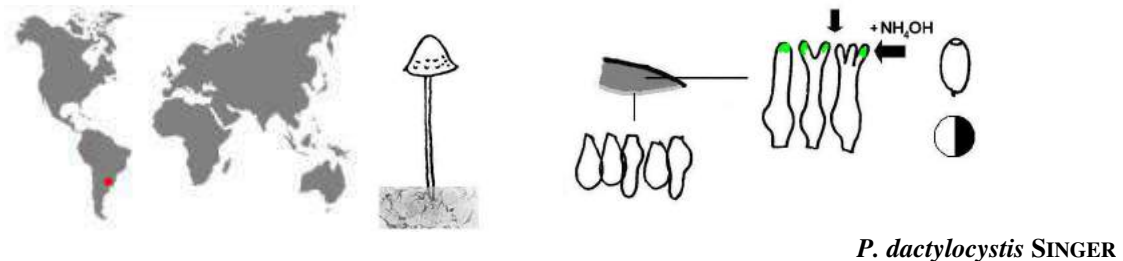
25

24* **Pleurocystidia otherwise.**

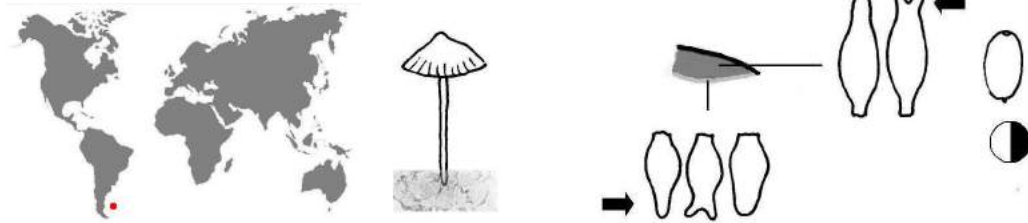
26

25 (24) **Pleurocystidia with greenish deposits in ammonia solution.**

C. -30 mm broadt. V. sparse. Sp. (8,5-) 9-11,3 x 4-5,8 μm. Ch. 20-40 x 5,8-12 μm, in addition, clavate cells. Pl. 40-89 x 12-21 (-23,5) μm. Soil, Argentina.



- 25* **Pleurozystiden without such deposits.**
 C. -40 mm broad. V. absent. Sp. 9-11 x 4,5-5 µm, ellipsoid, red brown. Cystidia (not differentiated)
 70-90 x 14-17 µm, ventricos. Terrestrial, Falkland Islands.

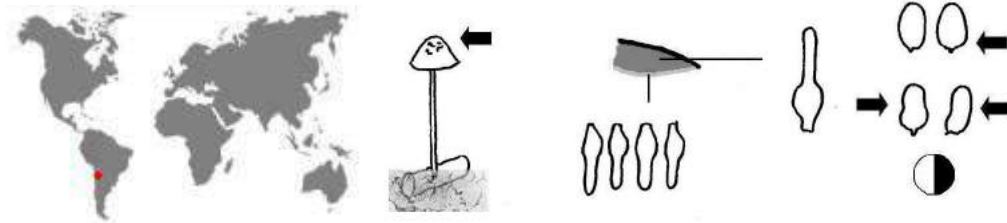


P. falklandica COTTON

- 26 (24) **Germ pore absent.** 27

- 26* **Germ pore present.** 29

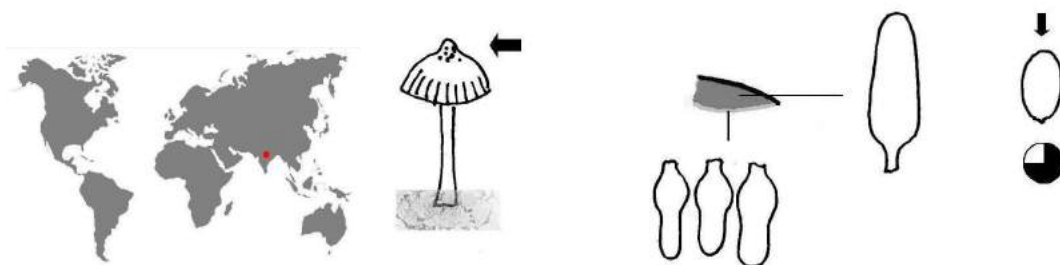
- 27 (26) **Sporen frontally often ovoid or constricted.**
 C. -15 mm broad, center rugulose. V. absent. Sp. 7-8,5 x 3,5-4,5-(5) µm. Ch. 42-57 x 8,5-12,2-(15) µm.
 Pl. similar to the ch. Totholz. Chile.



P. apora SINGER

- 27* **Spores frontally ellipsoid.** 28

- 28 (27) **Spores very dark, pleurocystidia hyaline.**
 C. -25 mm broad, umbonate. V. strongly developed. Sp. 7-11,2 x 5,5-8,5 µm, dark brown. Ch. 40-60 x
 18-20 µm. Pl. 70-85 x 22-35 µm. Terrestrial, India.



P. terrestris NATARJAN

- 28* **Spores not very dark, pleurocystidia brownish pigmented.**
 C. -13 mm broad. V. sparse. Sp. 7,5-8 x 4,5-5,5 µm. Ch. similar to the pl., but more lageniform. Pl. 24-
 42 x 10-14,5 µm. Dead wood, Ecuador.



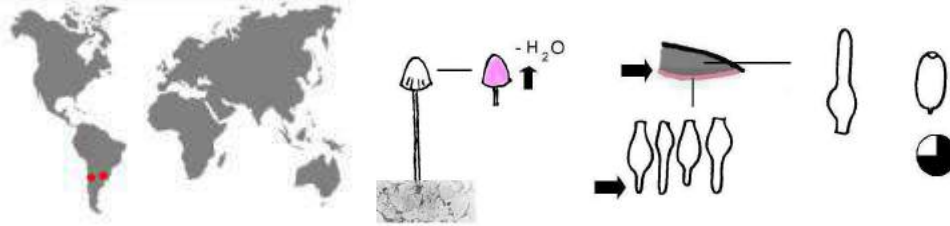
P. subconocyboides SINGER

- 29 (26) **Spores up to 16,5 µm long.** 30

- 29* **Spores not longer than 13,5 µm.** 31

30 (29) Lamellae edge pinkish.

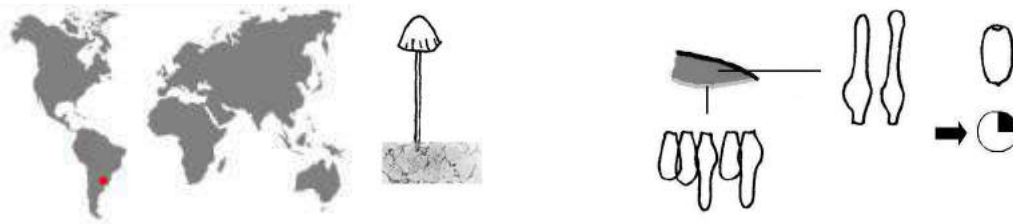
C. – 12 mm broad, when drying with pink. V. sparse. Sp. 13,8-16 x 7,8-8,7 μm. Ch. 25-37 x 8,7-15 μm. Pl. similar to the ch. Soil, Argentina, Chile.



P. tilcariensis SINGER

30* Lamellae edge white.

C. – 20 mm broad. V. sparse. Sp. 11,5-16,5 x 6,5-8,2 μm. Ch. 26-56 x 7-13,5 μm, in addition, clavate cells. Pl. 30-68 x 10-18 μm. Soil, Argentina.



P. patagonica SINGER

31 (29) Spores up to 13,5 μm long.

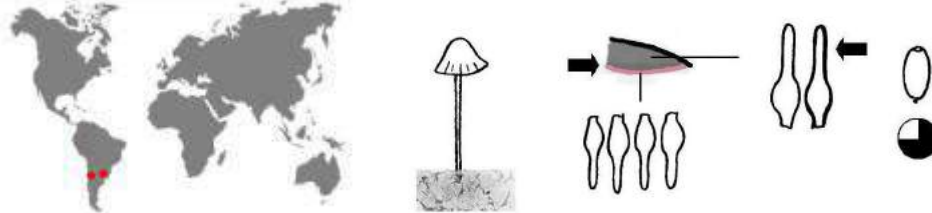
32

31* Spores not longer than 10,5 μm.

35

32 (31) Lamellae edge pinkish.

C. – 30 mm broad. V. sparse. Sp. 12,3-13,5 x 6,5-7,5 μm. Ch. 20-41,5 x 7,5-14 μm. Pl. 3-60 x 11-14 μm, walls sometimes slightly thickened. Soil, Argentina, Chile.



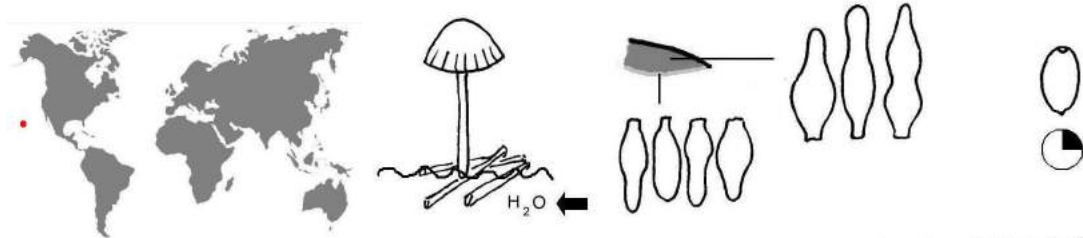
P. subprona SINGER

32* Lamellae edge white.

33

33 (32) Cap up to 20 mm broad, Spores up to 13 μm long, pale.

V. absent. Sp. 8-13 x 6-8 μm, ellipsoid. Ch. similar to the pl, these 12-48 x 4,5-12 μm, very versiform. Mangrove swamp, Hawaii.



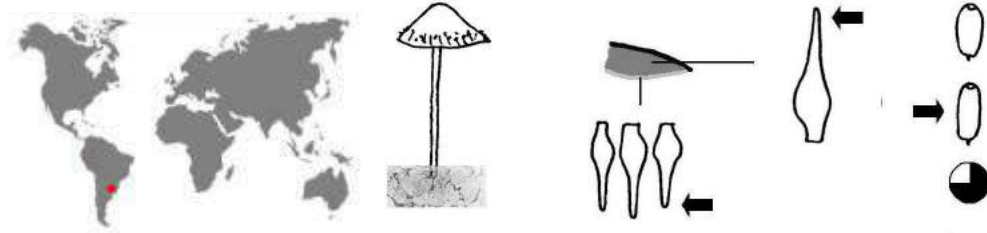
P. rhizophorae SINGER

33* Cap broader, Spores shorter, dark.

34

34 (33) **Pleurocystidia lageniform, apex acute.**

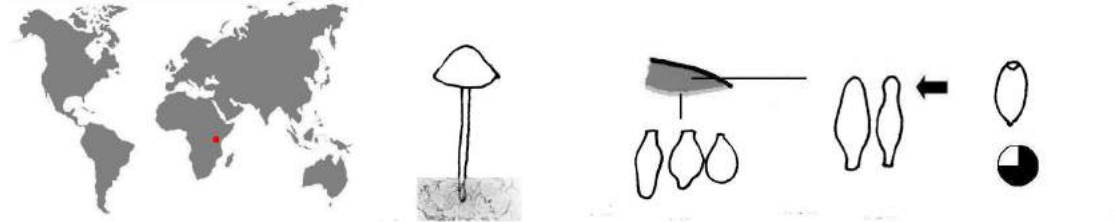
C. -70 mm broad. V. young distinct. Sp. 9,7-11,7 x 6-6,3 µm, often subcylindrical. Ch. 34,5-49,5 x 10,8-14 µm. Pl. 65-126 x 13-22 µm, brownish pigmented, walls slightly thickend. Soil, Argentina.



P. moseri SINGER

34* **Pleurocystidia utriform, apex obtuse.**

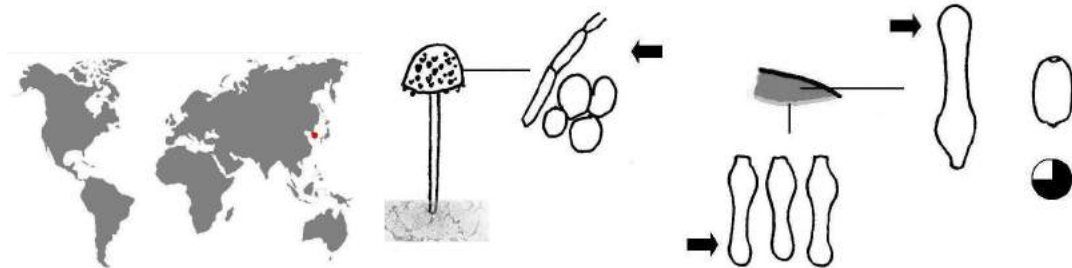
C. -50 mm broad. V. absent. Sp. 9,5-12,5 x 6-6,7 µm, ellipsoid. Ch. 25-40 x 13-23 µm, mostly clavate, some ellipsoid or mucronat. Pl. 25-40 x 9-17 µm. Soil in forest, Tanzania.



P. usambarensis PEGLER

35 (31) **Veil cells partly globos.**

C. -12 mm broad, not spreading. V. white, granular. Sp. 8,2-9,1 x 3,9-4,6 µm. Ch. 27,3-33,7 x 6,8-9,1 µm. Pl. 29,1-36,4 x 9,1-10 µm. In humus or at residues of cotton plants, Korea.



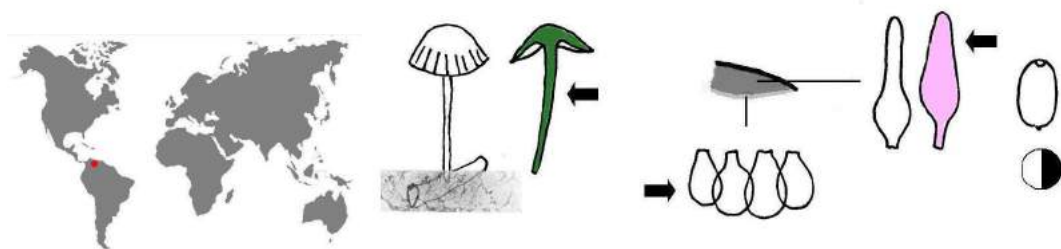
P. utriformcystis S. J. SEOK & Y. S. KIM

35* **Veil cells not so.**

36

36 (35) **Pleurocystidia pale wine red pigmented .**

C. -50 mm broad. V. absent. Flesh with an olive hue. Sp. 9-10 x 4,5-5 µm, ellipsoid, ovoid, brown. Ch. only clavate and sphaeropedunculate. Pl. 45-55 x 11-17 µm, partly reddish pigmented. Pieces of wood, Venezuela.



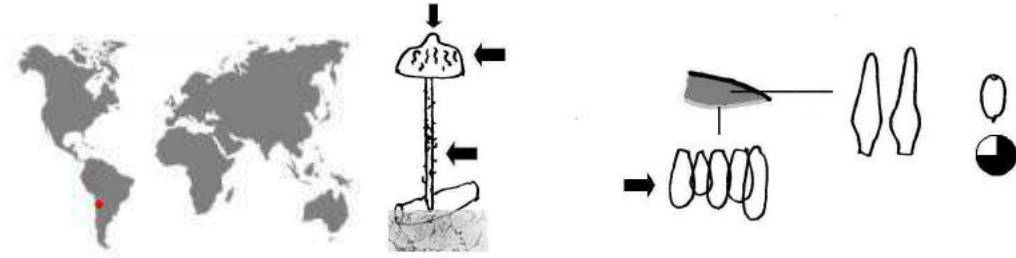
P. bernardiana DENNIS

36* **Pleurocystidia not so.**

37

37 (36) **Cheilocystidia almost only clavate.**

C. -50 mm broad. V. sparse, brownish. Sp. 7,7-9,5 x 4,3-5,2 μm. Ch. 19-26 x 10-15 μm, subcylindrical clavate. Pl. 38-73 x 7-18 μm, fusiform, lageniform, mostly pointed, walls sometimes slightly thickened. Soil, dead wood, Chile.



P. polycystidiosa SINGER

37* **Cheilocystidia not only clavate.**

38

38 (37) **Cheilocystidia intermixed with numerous clavate cells.**

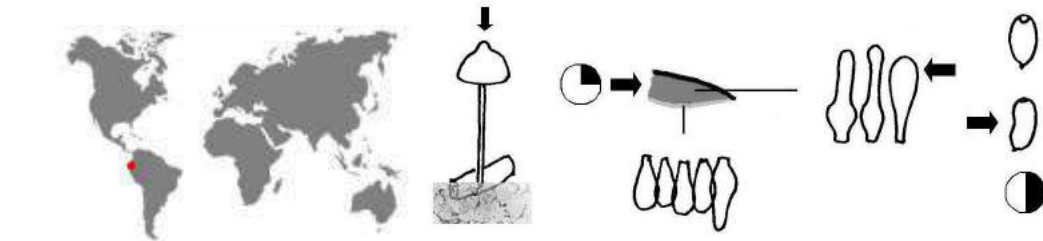
39

38* **Cheilocystidia hardly intermixed with clavate cells.**

40

39 (38) **Lamellae strikingly pale, spores phaseoliform.**

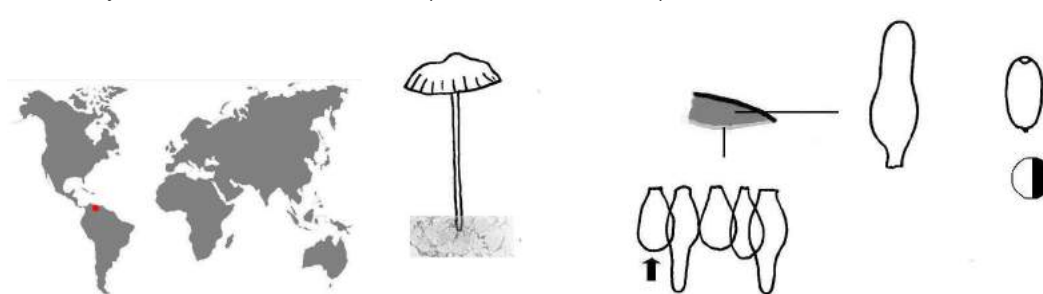
C.-33 mm broad, with umbo. V. absent. L. narrow, close, pale brownish. Sp. 8-9,6 x 4,7-6 μm. Ch. similit to the pl., intermixed with clavate cells. Pl. 32-46 x 11-20 μm. Dead wood, Ecuador.



P. fascicularis SINGER

39* **Lamellae not strikingly pale, sporen not phaseoliform.**

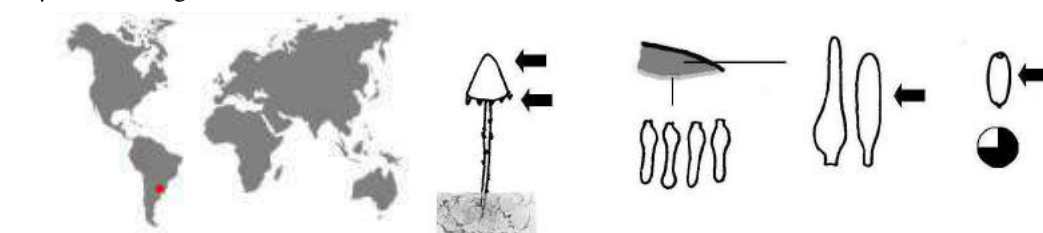
C. -30 mm broad. V. absent. Sp. 8,5-10,5 x 5-5,5 μm, long ellipsoid. Ch. 35-40 x 9-13 μm, intermixed with many clavate cells, 20-30 x 14-20 μm. Pl. 30-35 x 9-14 μm, utriform. Soil, Venezuela.



P. viloriana DENNIS

40 (38) **Spores up to 10,8 μm long, cap strikingly conical.**

C. -13 mm broad. V. appendiculate. Sp. 9-10,8 x 5-5,8 μm. Ch. 20-22,5 x 2,7-5,5 μm. Pl. 26-32 x 7,7-11 μm. Soil, Argentina, Chile.



P. acutissima SINGER

40*

Spores up to 8,3 μm long, cap not strikingly conical.

C. -20 mm broad, dark grey. V. unknown. Sp. 7,3-8,3 x 4-5 μm . Ch. 36 x 11,5-16,5 μm . Pl. similar to the ch. Soil, dry land, Argentina.



P. tristis SINGER
