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List of species of mollusca obtained by Prof. Goodsir from Spitzbergen

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Arrested Development of the Tadpole of the Common Frog.

To the Editors of the *Annals of Natural History.*

British Museum, Nov. 21, 1855.

GENTLEMEN,—Not being aware if the arrested development of the tadpole of the common Frog is of frequent occurrence, I have forwarded you the following instance, should you think it worthy of notice in the ‘Annals.’

Early in the spring (about the latter end of March) I placed some frog spawn in a glass containing *Vallisneria* and *Confervæ*, and in due time I had a little colony of about two dozen tadpoles, most of which gradually grew into frogs, with the exception of two individuals, whose further progress was arrested after having attained a middling size; their hind legs commenced budding, but made no progress; the fore legs were never developed. They were active and lively during the summer, but in the autumn became sluggish, moving but little about the glass, mostly lying in the *Confervæ*, seldom at the bottom. Their inactivity gradually increased until their death. One died in the latter part of October, the other in the second week of November.

I am, Gentlemen, yours obediently,

W. DAVIES.

List of Species of Mollusca obtained by Prof. GOODSIR from Spitzbergen. By R. M'ANDREW, Esq.

<i>Terebratulina caput-serpentis.</i>	<i>Yoldia navicularis</i> , Gould ?
<i>Terebratella Spitzbergensis</i> , Dav.	<i>Pecten Islandicus</i> , var. (small and thin).
<i>Crania anomala</i> (dead).	— <i>Grœnlandicus</i> .
<i>Astarte elliptica</i> , Br.	<i>Dentalium</i> , sp. ined.
— <i>crebricostata</i> , Forbes.	<i>Patella (Lepeta) cæca</i> .
— <i>Warhami</i> , Hancock ?	<i>Cancellaria (Admete) viridula</i> , O. Fabr.
<i>Leda caudata</i> .	
— <i>pernula (rostrata)</i> , Mart.).	

Note.—This list is the more interesting since visits to Spitzbergen have become so rare. Capt. Phipps enumerates the following species in his ‘Voyage towards the North Pole,’ Lond. 1774 :—

<i>Ascidium rusticum</i> and <i>gelatinosum</i> .	
<i>Synœcium turgens</i> , Phipps.	
<i>Clio helicina</i> and <i>limacina</i> (Arctic Sea generally).	
<i>Chiton ruber</i> .	
<i>Mya truncata</i> .	} Smeerenberg Harbour.
<i>Saxicava arctica</i> .	
<i>Buccinum undatum</i> , var.	
<i>Turbo helicinus</i> .	

Four other Spitzbergen shells are mentioned by Dr. Wm. Leach in the Appendix to Sir John Ross’s ‘Voyage of Discovery,’ ed. 2. 8vo, Lond. 1819. The specimens were probably obtained by Capt. Buchan, as a few Spitzbergen shells are in the Museum cases with his name attached :—

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Pandora glacialis, Leach (Brit. Mus.).

Macoma tenera, Leach (*Tellina balthica*, L.).

Crassina semisulcata, Leach (Brit. Mus.) = *Astarte lactea*, Brod. and Sby.

Nicania Banksii, Leach. (Specimens answering to Leach's description are in the Museum cases; the authors of the 'British Mollusca' have hesitated to include this with the smooth variety of *Astarte compressa*, Mont.)

There is a tablet of small specimens of *Crania anomala*, labelled "Spitzbergen, Capt. Buchan," which is now confirmed by Prof. Goodsir's specimens. The species does not range to Finmark on the Norwegian coast.

Dr. Lovén mentions *Trophon scalariformis* and "*Yoldia hyperborea*" as occurring at Spitzbergen; and *Saxicava arctica*, *Buccinum glaciale*, and *Fusus despectus* and *deformis* have also been collected there.—S. P. WOODWARD.

METEOROLOGICAL OBSERVATIONS FOR OCTOBER 1855.

Chiswick.—October 1. Fine: showery: fine. 2. Foggy: cloudy: foggy: rain. 3. Dense fog: rain. 4. Densely clouded: heavy rain. 5. Fine: heavy rain. 6. Very fine: cloudy: rain. 7. Fine: foggy at night. 8. Rain: very fine. 9. Foggy: very fine. 10. Fine. 11. Rain. 12. Cloudy and boisterous: rain. 13. Very fine. 14. Foggy: cloudy. 15. Dense fog: fine. 16. Very fine: rain at night. 17. Rain, with fog. 18. Overcast: fine. 19. Light clouds and fine. 20. Fine: cloudy: fine. 21. Cloudy. 22. Foggy: very fine: cloudy. 23. Foggy: uniformly overcast. 24. Fine: clear: fine. 25. Cloudy and boisterous. 26. Very boisterous: overcast: fine. 27. Exceedingly fine. 28. Very clear: fine. 29. Rain: drizzly. 30. Constant heavy rain. 31. Rain: cloudy: rain at night.

Mean temperature of the month	50°·28
Mean temperature of Oct. 1854	48·20
Mean temperature of Oct. for the last twenty-nine years ...	50·00
Average amount of rain in Oct.	2·686 inches.

Boston.—Oct. 1. Cloudy. 2. Cloudy: rain A.M. 3. Cloudy. 4. Rain A.M. and P.M.: heavy thunder-storm. 5. Fine: rain P.M. 6. Fine. 7. Cloudy: rain A.M. 8. Foggy. 9. Cloudy: rain P.M. 10. Fine. 11. Rain A.M. and P.M. 12. Cloudy. 13. Fine. 14. Cloudy. 15. Foggy: rain P.M. 16. Fine. 17. Cloudy: rain A.M. 18. Fine. 19. Cloudy: rain P.M. 20. Fine. 21. Cloudy: rain P.M. 22. Cloudy. 23. Cloudy: rain A.M. and P.M. 24. Fine. 25. Cloudy. 26, 27. Rain A.M. and P.M. 28. Fine. 29. Foggy: rain A.M. and P.M. 30, 31. Rain A.M. and P.M.

Sandwich Manse, Orkney.—Oct. 1. Fog A.M.: clear P.M. 2. Drizzle A.M.: damp P.M. 3. Showers A.M.: rain P.M. 4. Rain A.M. and P.M. 5. Clear A.M. and P.M. 6. Bright A.M.: cloudy P.M. 7. Rain A.M. and P.M. 8. Hazy A.M.: drizzle P.M. 9. Cloudy A.M.: sleet-showers, aurora P.M. 10. Cloudy A.M.: dry: rain P.M. 11. Showers A.M. and P.M. 12. Showers A.M.: clear P.M. 13. Fine A.M.: clear, fine, aurora P.M. 14. Fine, hoar-frost A.M.: clear, fine, aurora P.M. 15. Fine, frost A.M.: clear, fine P.M. 16. Sleet-showers A.M.: clear P.M. 17. Showers A.M.: rain P.M. 18. Showers A.M.: sleet-showers, aurora P.M. 19. Drops A.M.: clear, fine P.M. 20. Rain A.M.: drizzle P.M. 21. Showers A.M.: clear P.M. 22. Cloudy A.M. and P.M. 23. Rain A.M.: sleet-showers P.M. 24. Hail-showers A.M.: sleet-showers P.M. 25, 26. Rain A.M.: showers P.M. 27. Snow-showers A.M.: clear, aurora P.M. 28. Clear, frost A.M. and P.M. 29. Cloudy A.M.: hazy P.M. 30. Bright A.M.: clear P.M. 31. Bright A.M.: cloudy P.M.

Mean temperature of Oct. for twenty-eight previous years ...	47°·64
Mean temperature of this month	45·72
Mean temperature of Oct. 1854	46·39
Average quantity of rain in Oct. for fifteen previous years ...	5·08 inches.