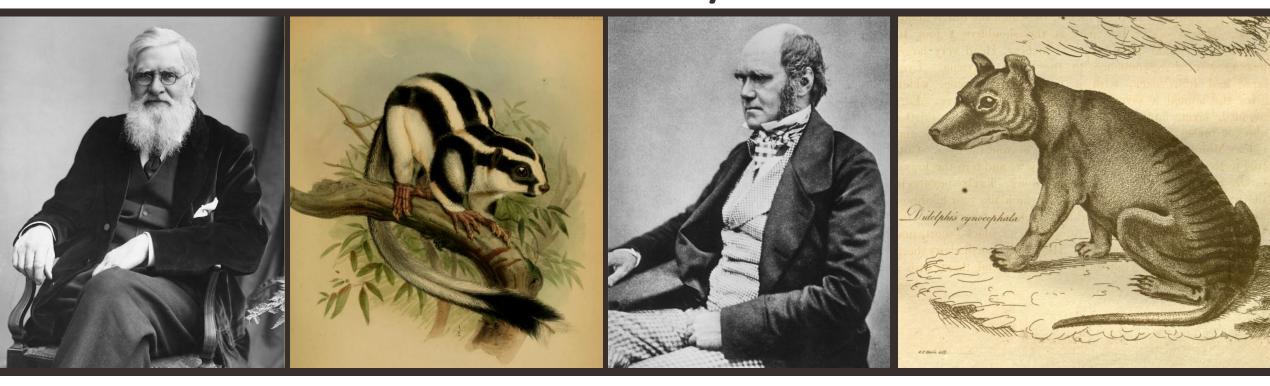
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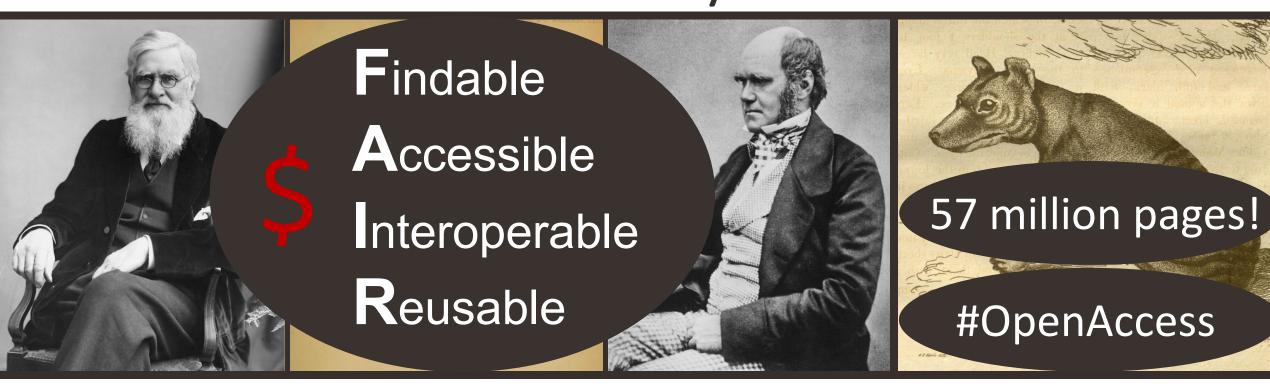






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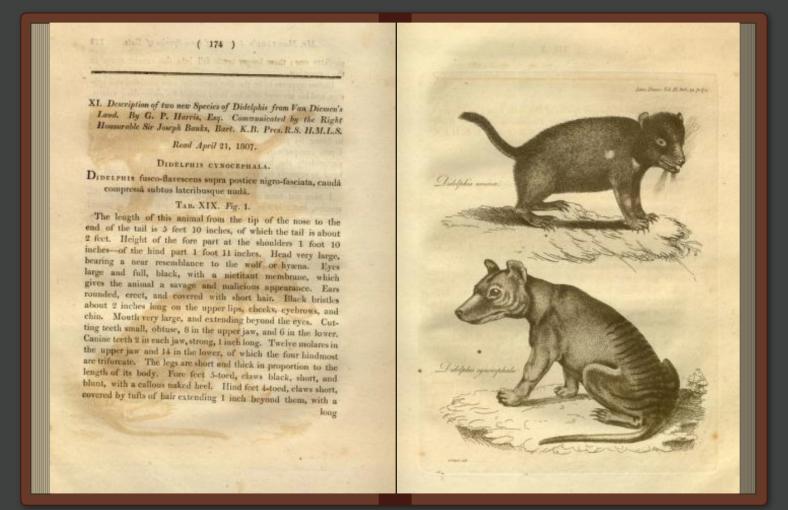


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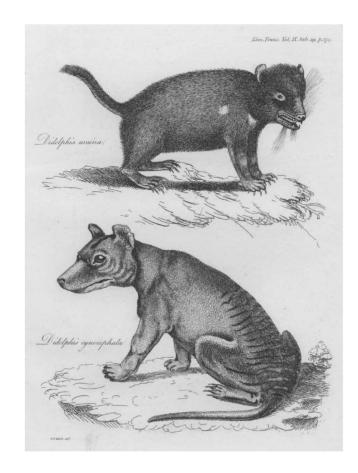
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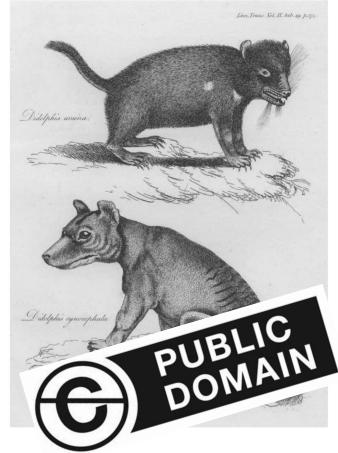
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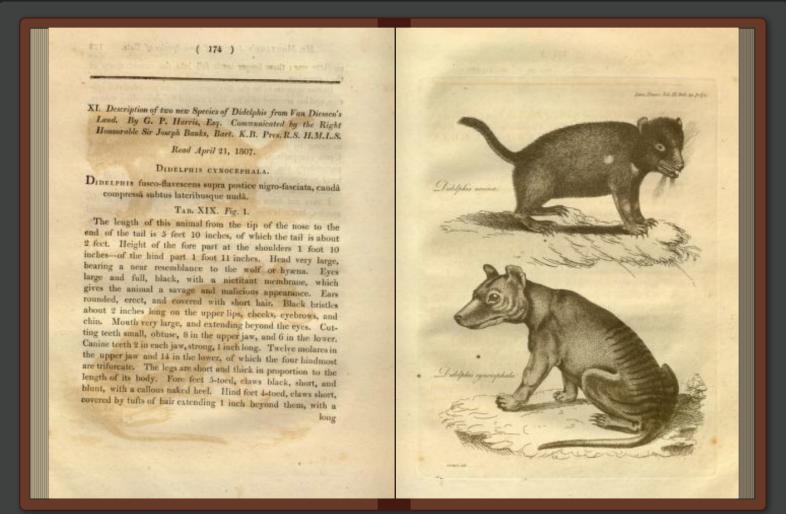
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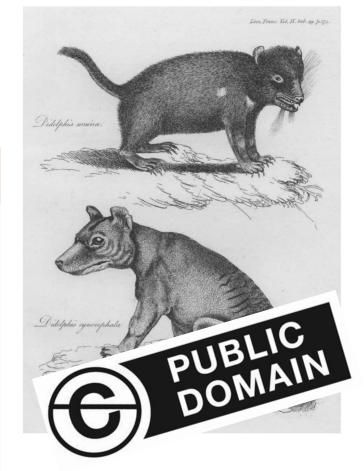
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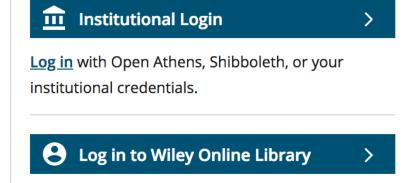
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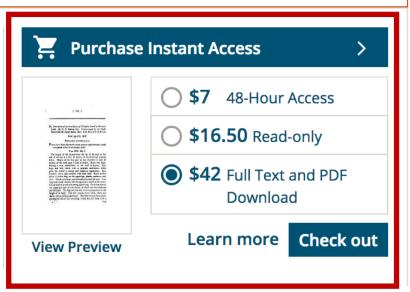
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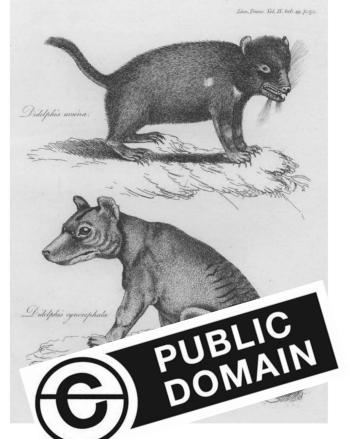
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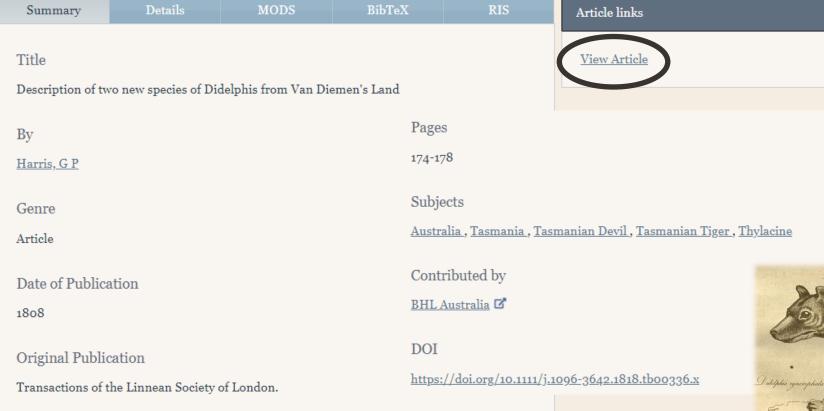


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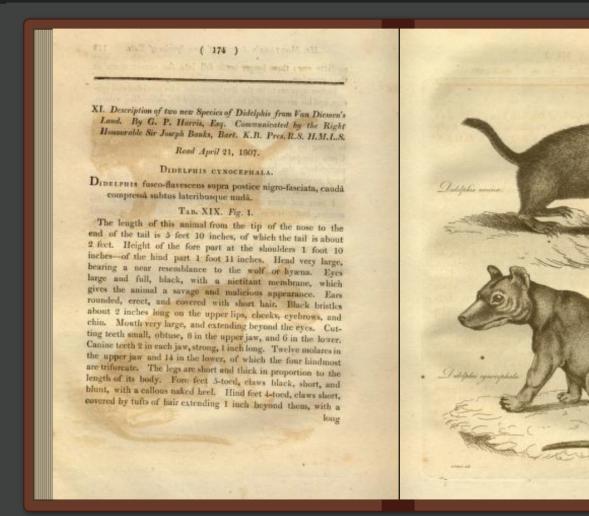
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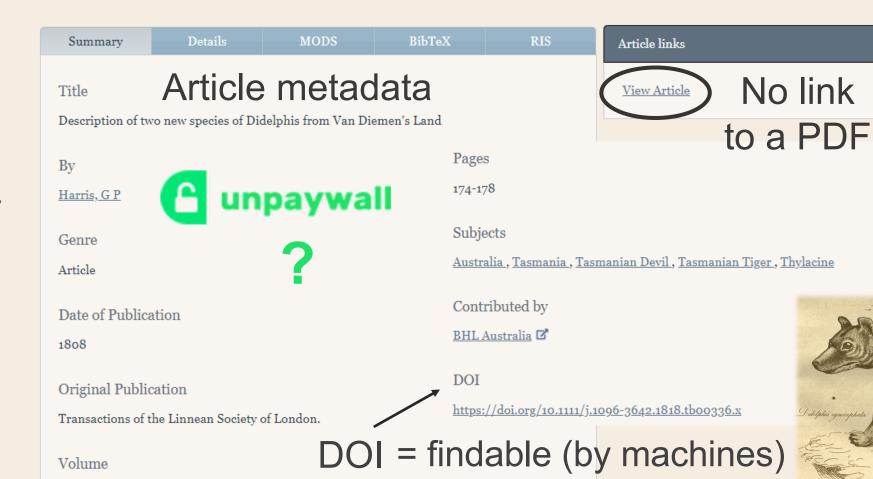


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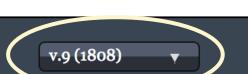
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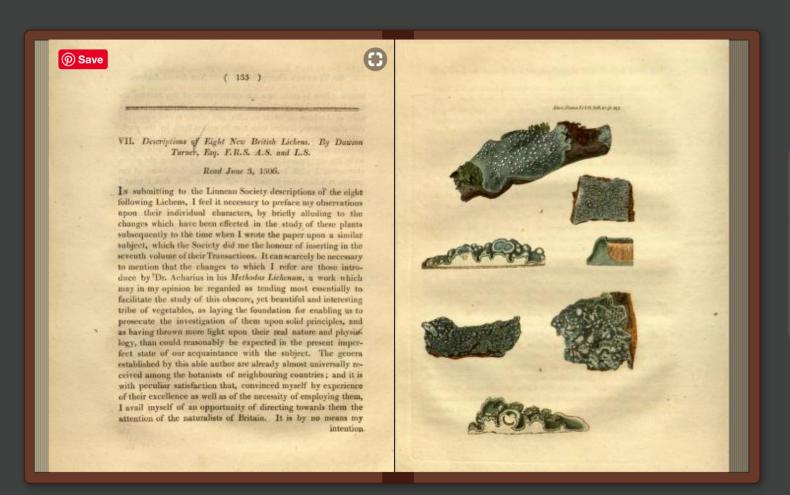
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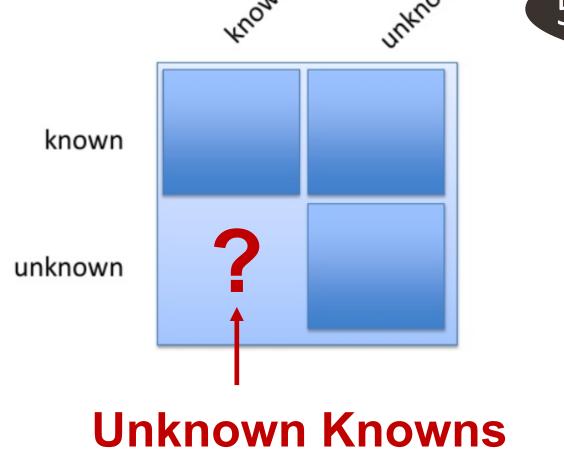
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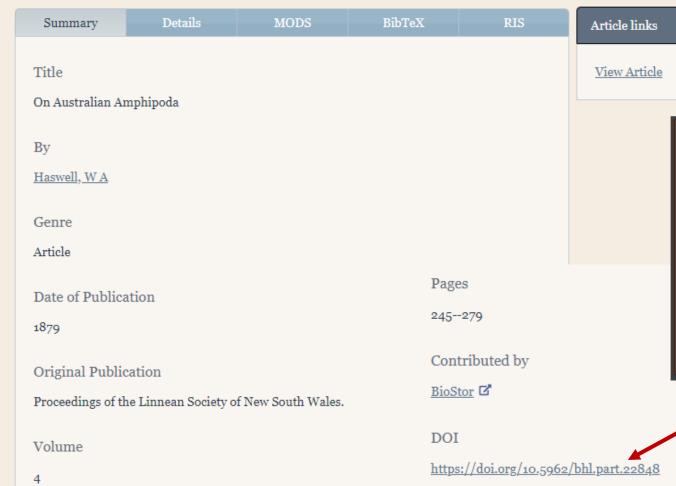


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A taxonomic revision helps to clarify differences between the Atlantic invasive *Ptilohyale littoralis* and the Mediterranean endemic Parhyale plumicornis (Crustacea, Amphipoda)

Sabrina Lo Brutto, Davide Iaciofano

#### Abstract A

Ptilohyale explorator (formerly Parhyale explorator), described by Arresti (1989), can be considered to be a synonym of west-Atlantic Ptilohyale littoralis (Stimpson, 1853), based on morphological observations of paratypes and specimens recently collected in the type locality of Ptilohyale explorator. The first collections of Ptilohyale littoralis, from the eastern Atlantic were from the port of Rotterdam (The Netherlands) in 2009 and later in Wimereux, Opal Coast (France) in 2014; however, the synonymy of Ptilohyale explorator with Ptilohyale littoralis backdates to the first European record of Ptilohyale littoralis in 1985 at La Vigne, Bay of Arcachon (France). This indicates that Ptilohyale littoralis has been established along European Atlantic coast for many years.

An assessment of the nominal valid species belonging to the genus Ptilohyale was carried out and a comparison between the Atlantic Ptilohyale littoralis and the very similar Mediterranean hyalid species, Parhyale plumicornis, is presented based on morphological features and distribution. Due to the invasive ability of Ptilohyale littoralis, a comparison between the two species is necessary.

#### Keywords A

Atlantic, Hyalidae, Invasive species, Mediterranean Sea, Parhyale plumicornis, Ptilohyale littoralis

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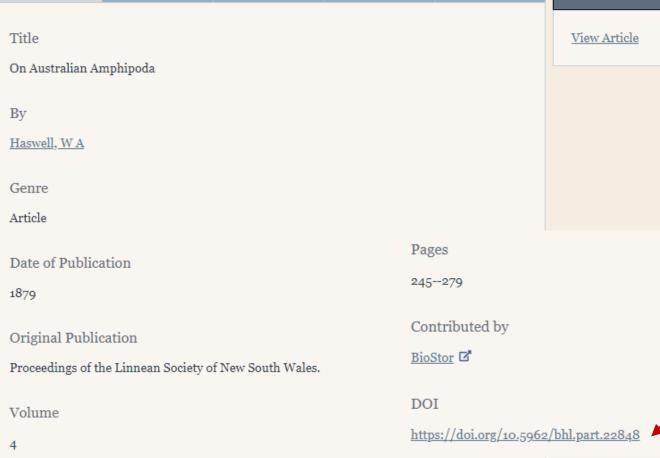
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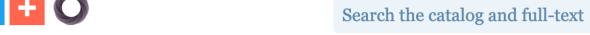
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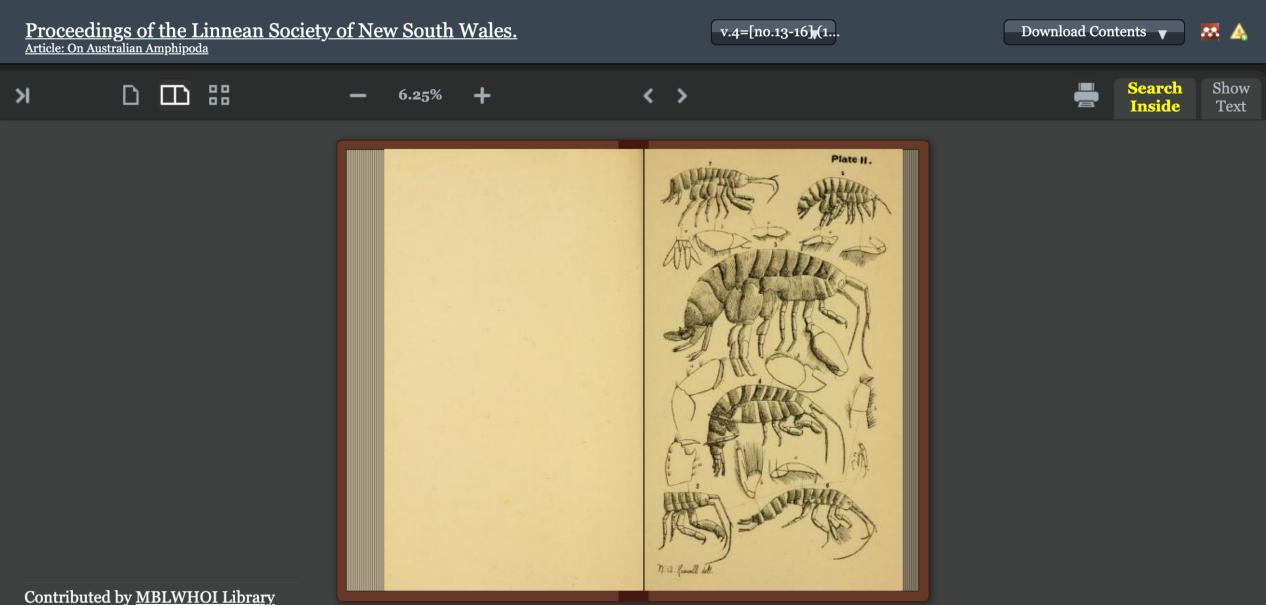




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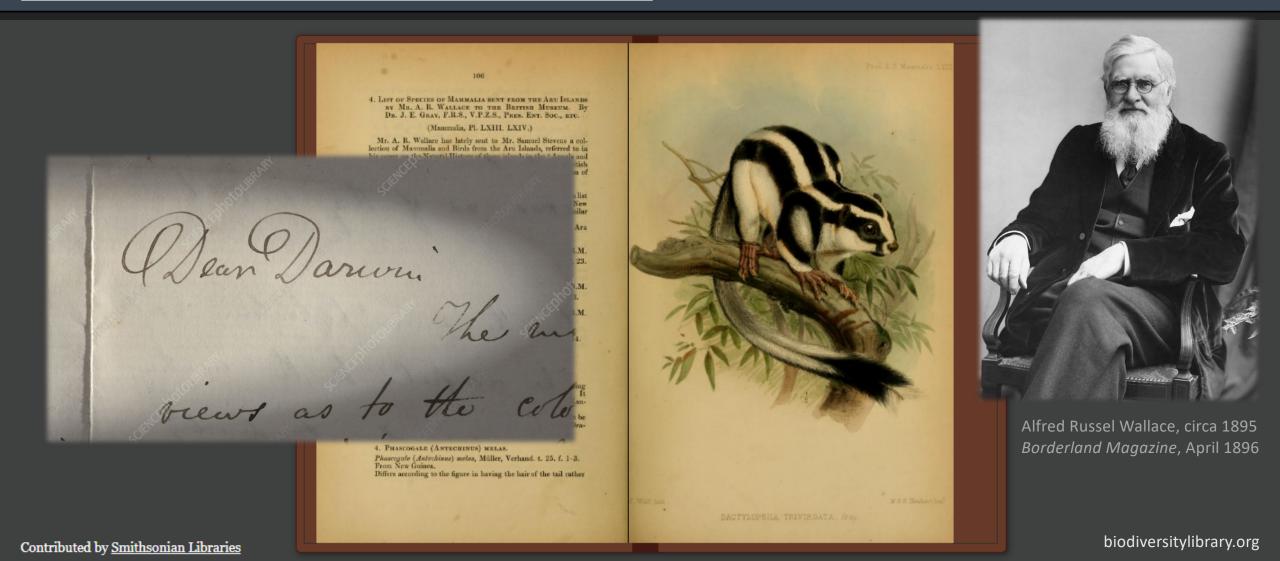




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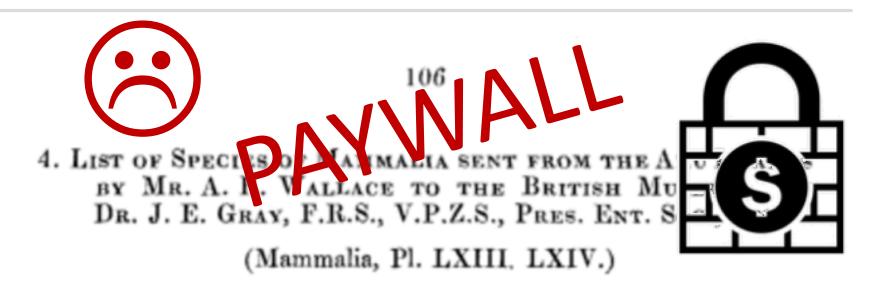
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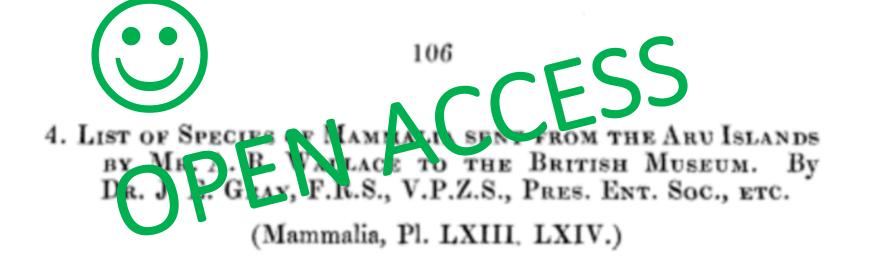
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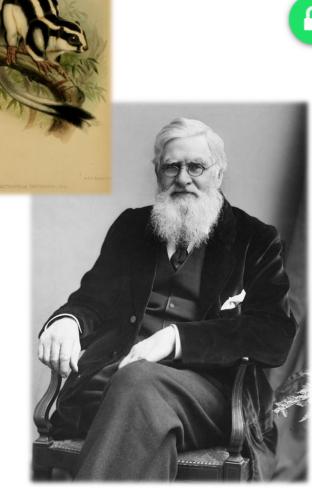
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Alfred Russel Wallace, circa 1895 Borderland Magazine, April 1896

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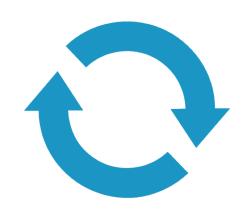


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## The historic literature is the foundation upon which our understanding of biodiversity is based.



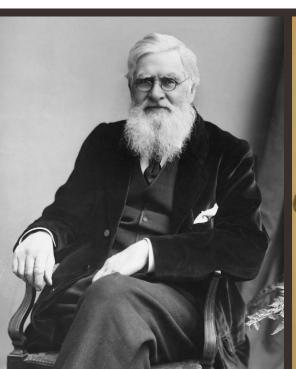




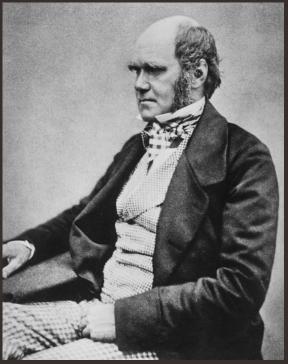
The Great Linked Network of Scholarly Research **MUST** include the historic literature!

## Thank you

## Dank je









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