**Table 1.** Classification schemes as proposed by previous characters and as implied by the current study. \* denotes that a taxon has been assigned to Osmundaceae but no subfamily according to Bomfleur et al. (2017). \*\* denotes that a taxon was found in a polytomy in the strict consensus of Wang et al. (2014).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Family** | | **Subfamily** | **Miller (1961, 1971), Tidwell and Ash (1994)** | **Wang et al. (2014)** | **Bomfleur et al. (2017)** | **This study (Dependencies)** | **This study (Non-dependencies)** |
| Guaireaceae | Itopsidemoideae | | *Itopsidema* | *Guairea* | *Donwelliacaulis* | *Donwelliacaulis* | *Donwelliacaulis* |
|  |  | | *Donwelliacaulis* | *Itopsidema* | *Itopsidema* | *Itopsidema* | *Itopsidema* |
|  |  | | *Shuichengella* | *Shuichengella* | *Tiania* | *Tiania* | *Tiania* |
|  | Guairoideae | | *Guairea* | *Lunea* | *Guairea* | *Guairea* | *Guairea* |
|  |  | | *Lunea* | *Zhongmingella* | *Lunea* | *Lunea* | *Lunea \*\** |
|  |  | |  | *Osmundacaulis* | *Zhongmingella* | *Osmundacaulis tehuelchensis, O. tasmanensis, andrewii \** | *Osmundacaulis richmondii, O. tasmanensis, O. andrewii \** |
|  |  | |  |  |  | *Shuichengella\** | *Shuichengella \*, \*\** |
|  |  | |  |  |  | *Zhongmingella* | *Zhongmingella \*\** |
|  |  | |  |  |  |  |  |
|  |  | |  |  |  |  |  |
| Osmundaceae | Thamnopteroideae | | *Anomorrhoea* |  | *Chasmatopterys* | *Chasmatopterys* | *Thamnopteris (- T. splendida)* |
|  |  | | *Bathypteris* |  | *Thamnopteris* | *Bathypteris \** | *Bathypteris \** |
|  |  | | *Chasmatopteris* |  |  | *Thamnopteris* |  |
|  |  | | *legosigopteris* |  |  |  |  |
|  |  | | *Petcheropteris* |  |  |  |  |
|  |  | | *Thamnopteris* |  |  |  |  |
|  |  | | *Zalesskya* |  |  |  |  |
|  | Osmundoideae | | *Osmunda* | *Osmunda* (+ *Claytosmunda, Plenasium)* | *Palaeosmunda (+Millerocaulis stipabonettiorum)* | *Lunea jonesii* | *Ashicaulis* |
|  |  | | *Todea* | *Todea* | *Millerocaulis* | *Millerocaulis* | *Claytosmunda* |
|  |  | | *Leptopteris* | *Leptopteris* | *Todea* | *Todea* | *Leptopteris* |
|  |  | | *Palaeosmunda* | *Osmundastrum* | *Leptopteris* | *Leptopteris (L. estipularis)* | *Millerocaulis* |
|  |  | | *Ashicaulis* | *Millerocaulis (Osmundaceae?) \*\** | *Osmundacaulis estipularis* | *Claytosmunda* | *Osmunda* |
|  |  | | *Millerocaulis* | *Ashicaulis (Osmundaceae?) \*\** | *Claytosmunda* | *Osmunda* | *Osmundacaulis janae\** |
|  |  | | *Australosmunda* | *Palaeosmunda (Osmundaceae?) \*\** | *Osmunda* | *Osmundastrum* | *Osmundastrum* |
|  |  | | *Osmundacaulis* | *Aurealcaulis (Osmundaceae?) \*\** | *Osmundastrum* | *Palaeosmunda* | *Palaeosmunda williamsii, P. playfordii* |
|  |  | | *Aurealcaulis* |  | *Plenasium (+Aurealcaulis)* |  | *Plenasium* |
|  |  | |  |  | *Osmundacaulis\** |  | *Todea* |
|  |  | |  |  | *Shuichengella\** |  |  |
|  |  | |  |  | *Bathypteris\** |  |  |
| Incertae sedis |  | |  | *Chasmatopterys (Osmundales?) \*\** |  |  |  |
|  |  | |  | *Thamnopteris (Osmundales?) \*\** |  |  |  |
|  |  | |  | *Bathypteris (Osmundales?) \*\** |  |  |  |