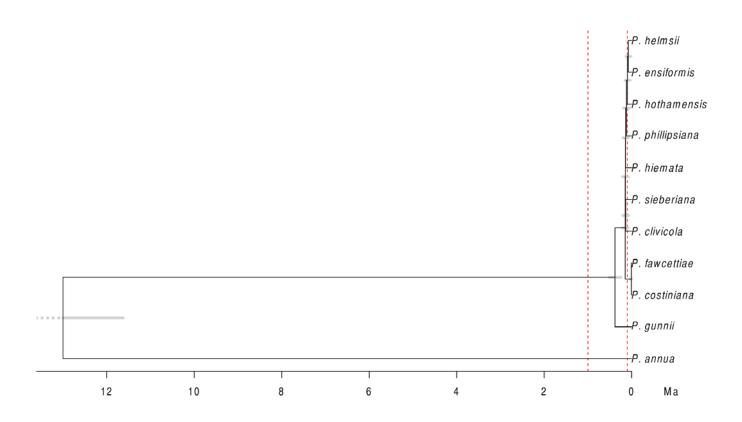
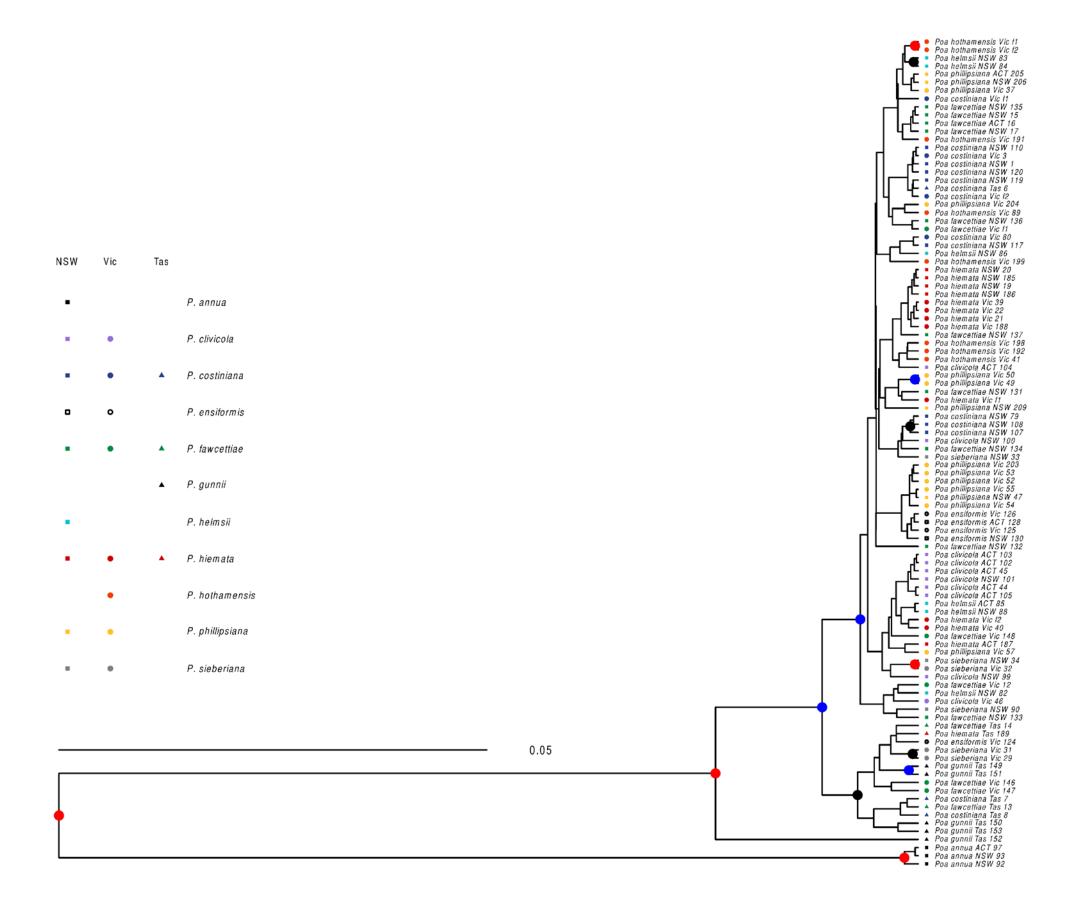
SUPPLEMENTARY DATA

Fig. S1: Species tree from 20 BPP runs including 95% HPD node date intervals (millions of years).



Figs S2–S9. Maximum clade credibility trees for each of the gene trees co-estimated with the species tree in *BEAST. Node support shown with black $(0.8 \le pp < 0.95)$, blue $(0.95 \le pp < 0.99)$ or red $(pp \ge 0.99)$ dots. Unlabelled nodes had pp < 0.8. Scale shows mutations per site. Samples from the Australian Capital Territory (ACT) are shown with the same symbols as New South Wales (NSW).

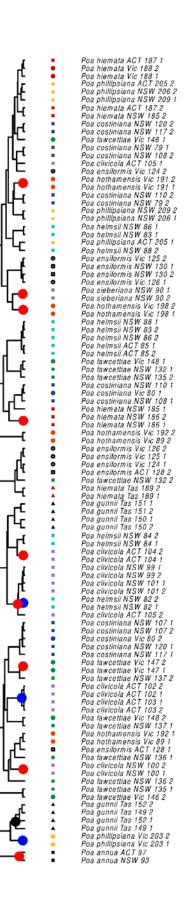
Fig. S2. The chloroplast tree, using the linked chloroplast regions *rpl32-trnL* and *rpoB-trnC*.



NSW Vic Tas

- P. annua
- P. clivicola
- P. costiniana
- P. ensiformis
- P. fawcettiae
 - ▲ P. gunnii
- P. helmsii
- 🔹 🔹 🔺 P. hiemata
- P. hothamensis
- P. phillipsiana
- P. sieberiana

0.05

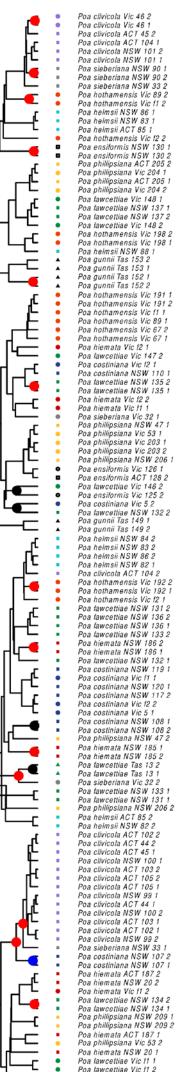


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						₽¢ :
NSW	Vic	Tas				
			_			
÷.	•		P. annua P. clivicola			_−Ę
	•		P. costiniana			
•	o		P. ensiformis			
\mathbf{r}_{i}	•		P. lawcettiae			
		•	P. gunnii			
1			P. helmsii			t ∎ t J
	•	•	P. hiemata			
	•		P. hothamensis P. phillipsiana			
	•		P. sieberiana			
				0.05		
•						
						44
1						•



Fig. S5. DMC1 Copy A.

NSW	Vic	Tas	
•			P. annua
12	•		P. clivicola
1.1	•		P. costiniana
•	o		P. ensiformis
1.1	•		P. fawcettiae
		•	P. gunnii
1.1			P. helmsii
. •	•		P. hiemata
	•		P. hothamensis
1.1	•		P. phillipsiana
	•		P. sieberiana



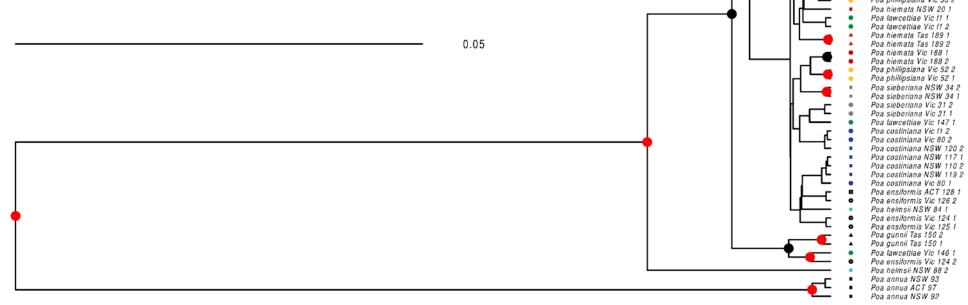
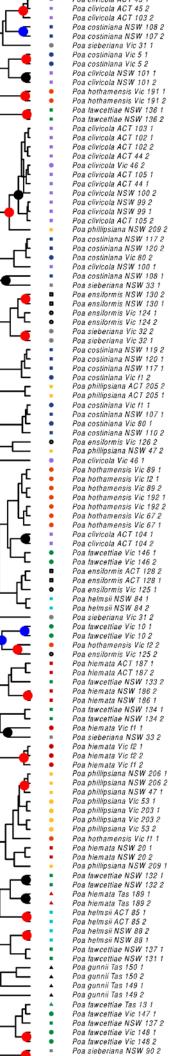
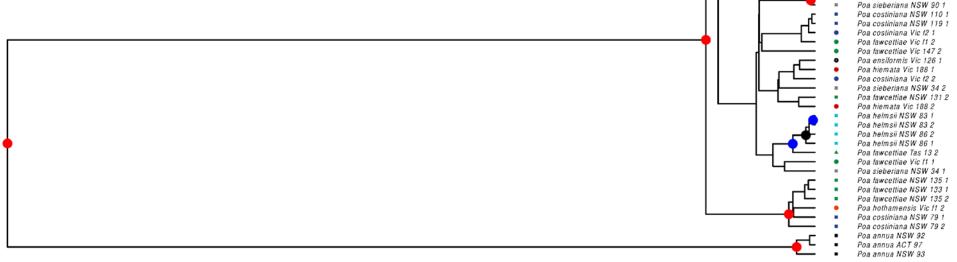


Fig. S6. DMC1 Copy B.

NSW	Vic	Tas	
			P. annua
÷.,	•		P. clivicola
	•		P. costiniana
•	o		P. ensiformis
•	•		P. fawcettiae
		•	P. gunnii
			P. helmsii
	•		P. hiemata
	•		P. hothamensis
х.	•		P. phillipsiana
	•		P. sieberiana



Poa clivicola ACT 45.1



•			P. annua
$\sim 10^{-1}$	•		P. clivicola
÷.,	•		P. costiniana
•	o		P. ensiformis
÷.,	•		P. fawcettiae
		•	P. gunnii
÷.,			P. helmsii
÷.,	•		P. hiemata
	•		P. hothamensis
÷.,	•		P. phillipsiana

Tas

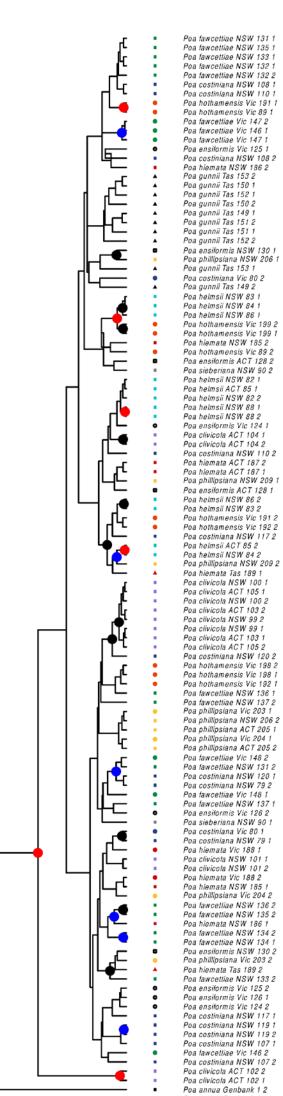
NSW

•

P. sieberiana

Vic

0.05



Poa annua Genbank 1 1

NSW	Vic	Tas	
			P. annua
÷.,	•		P. clivicola
÷.,	•		P. costiniana
•	o		P. ensiformis
÷.,	٠		P. fawcettiae
		•	P. gunnii
۰.			P. helmsii
÷.,	•	•	P. hiemata
	•		P. hothamensis
1	•		P. phillipsiana
	٠		P. sieberiana

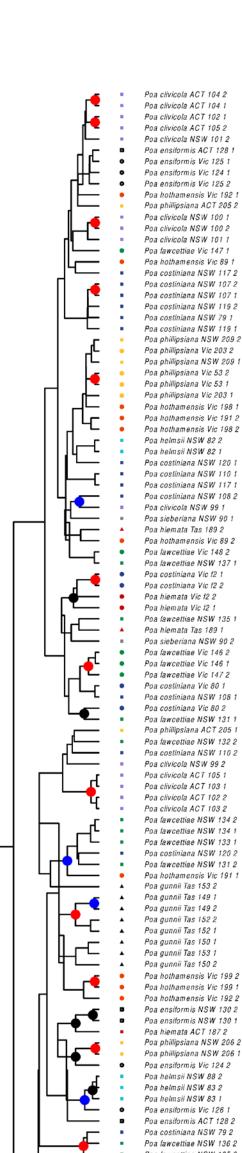




Fig. S9. waxy Copy B.

NSW

Vic

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Tas

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P. annua

P. clivicola

P. costiniana

P. ensiformis

P. fawcettiae

P. gunnii

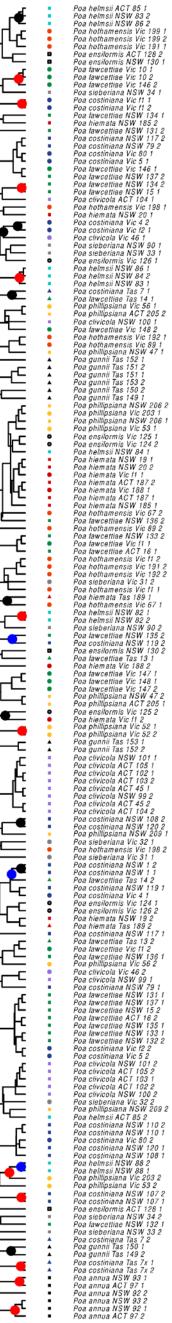
P. helmsii

P. hiemata

P. hothamensis

P. phillipsiana

P. sieberiana



0	.0	2
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