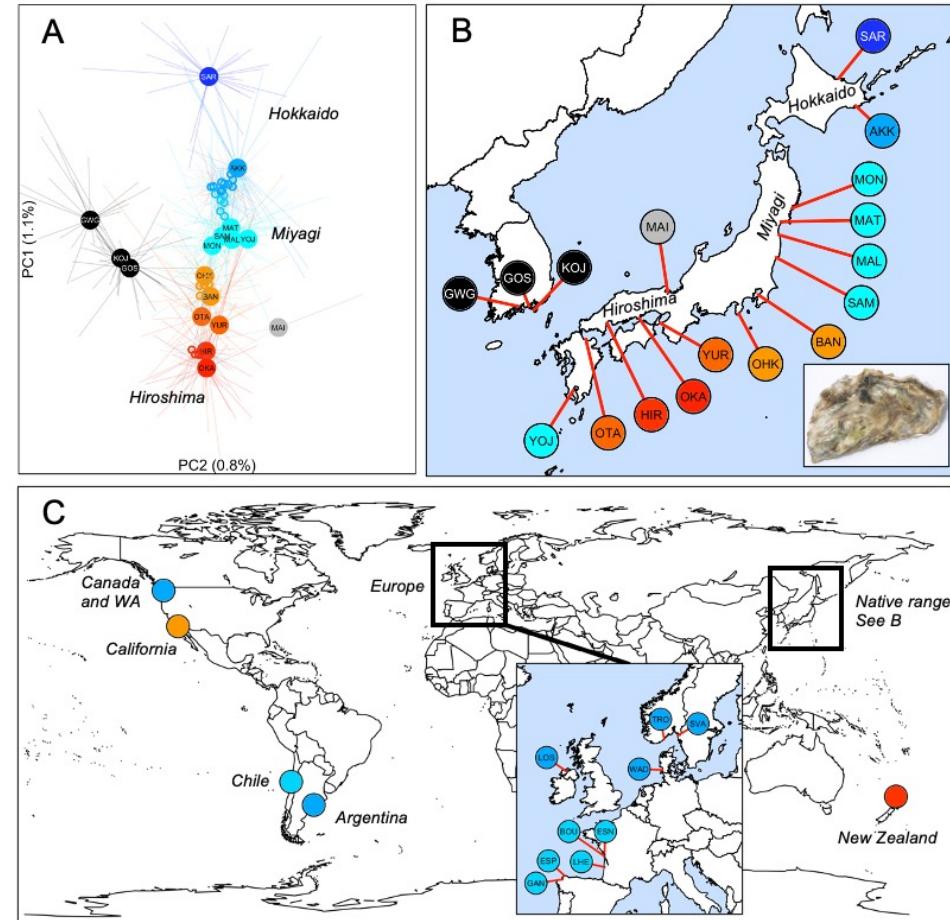
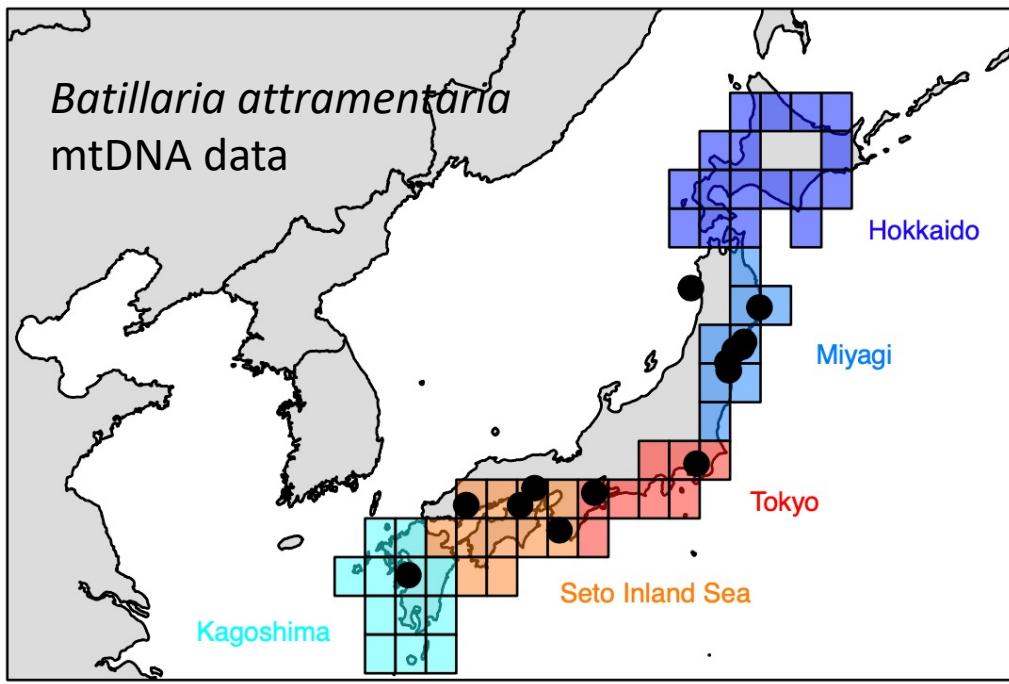


ML output = cross validation accuracy 69.7%

actual		Argentina	Chile	EuropeNorth	EuropeSouth	New Zealand	NW America	soCal
pred								
hok		0	1	2	3	0	1	0
hon		34	14	67	58	2	59	39
tok		0	0	0	0	0	0	0
sea		0	3	0	0	54	0	36
kag		0	0	0	0	0	0	0
nonSource		0	0	0	0	0	1	0

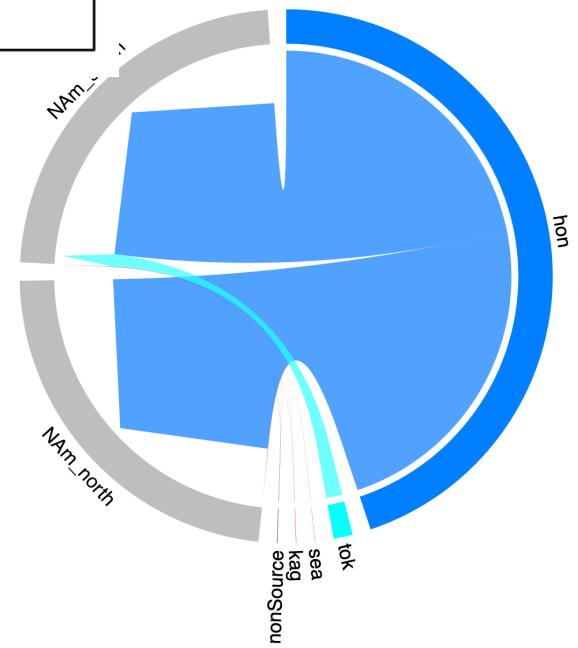
## Original data



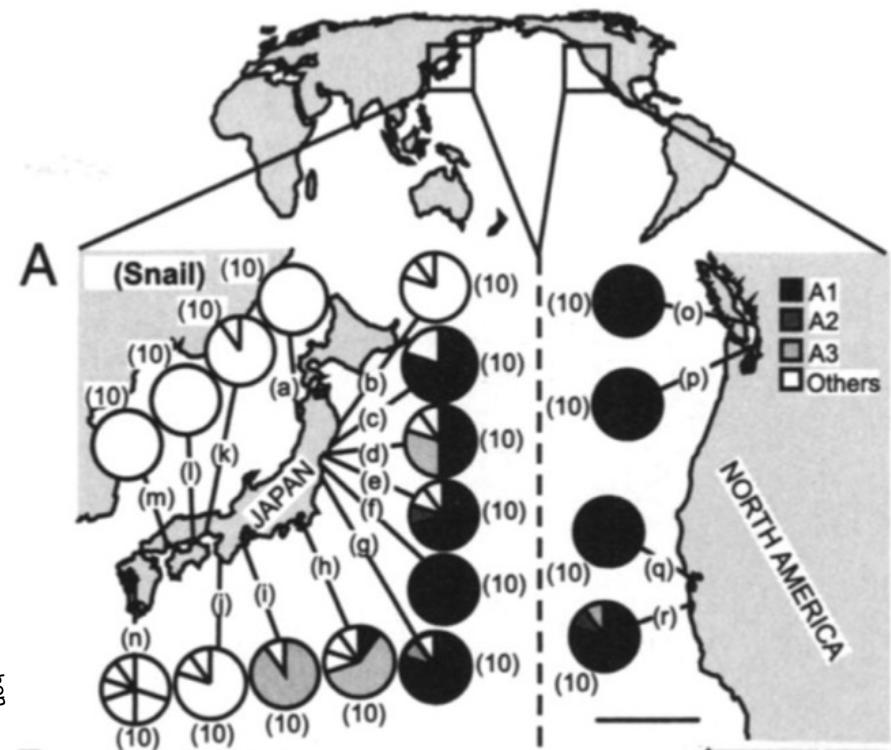


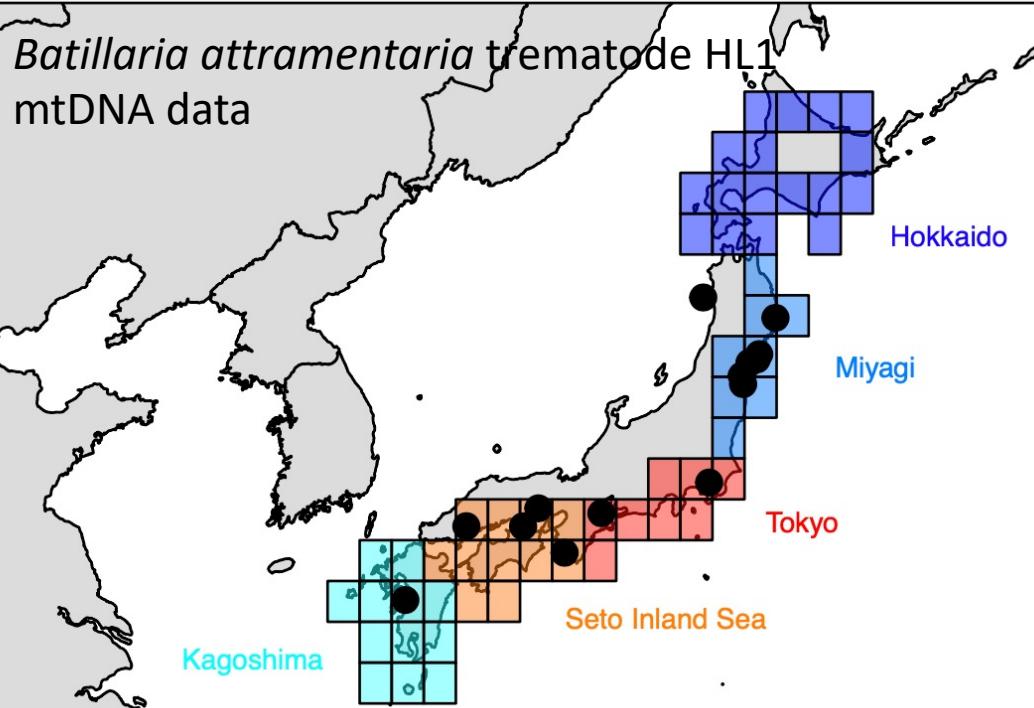
ML output = cross validation accuracy 85.3%

	actual	
pred	NAm_north	NAm_south
hon	20	19
tok	0	1
sea	0	0
kag	0	0
nonSource	0	0



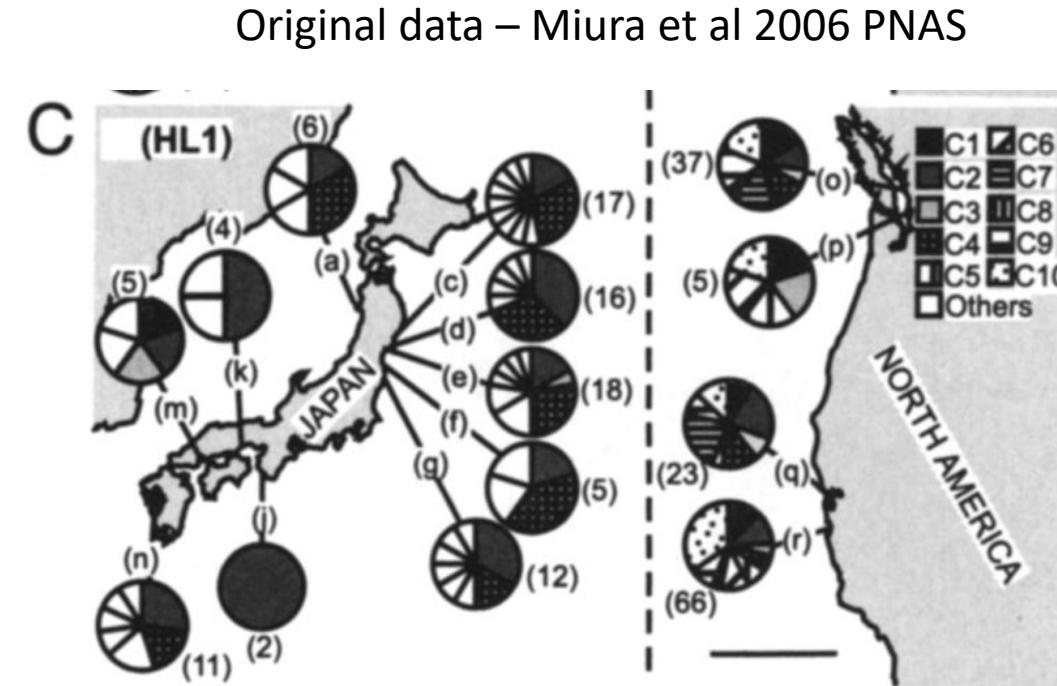
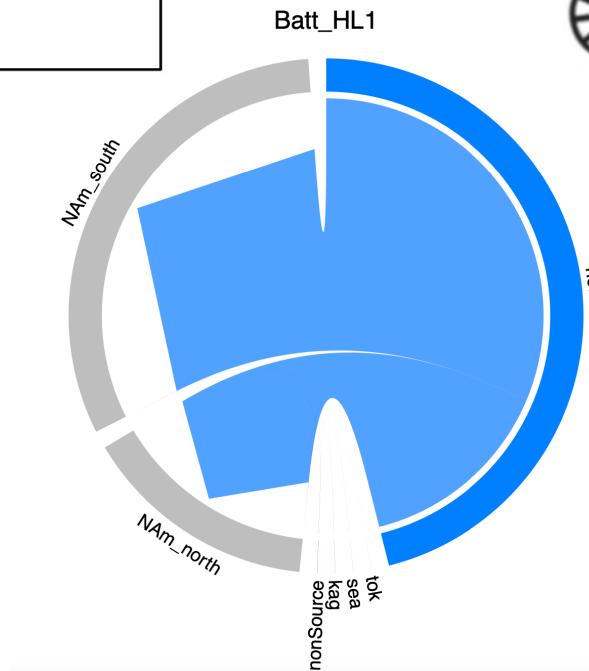
Original data – Miura et al 2006 PNAS

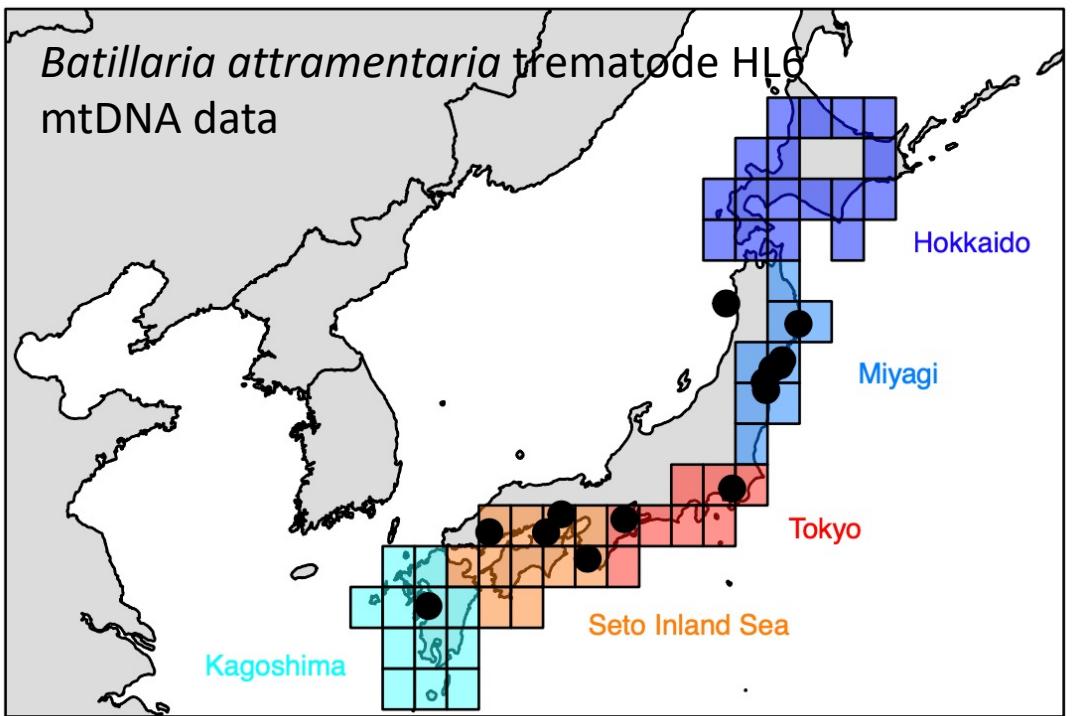




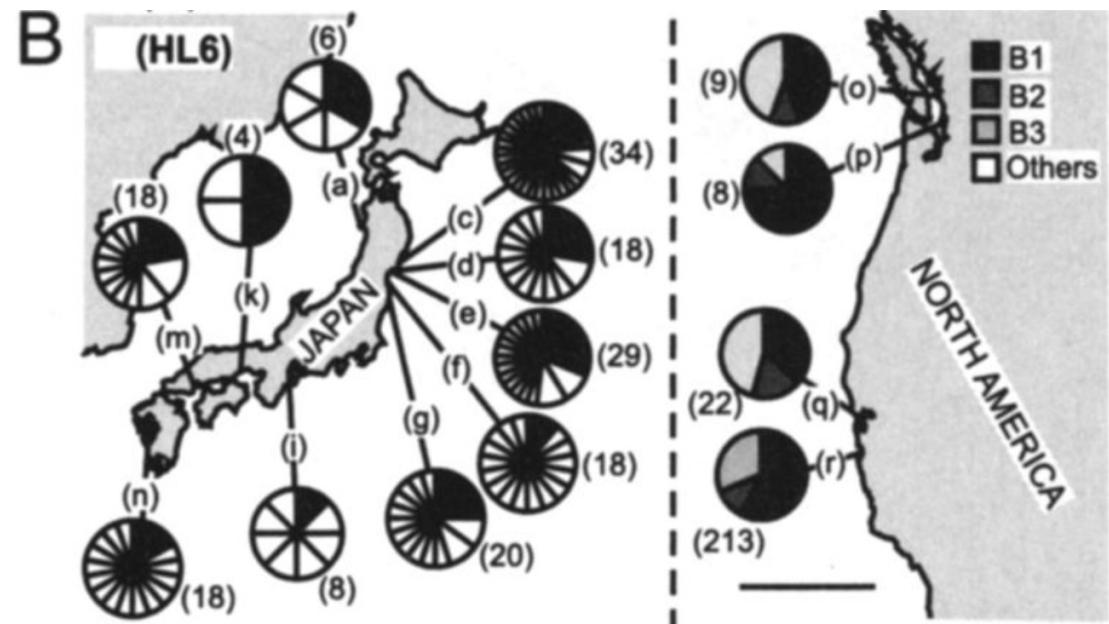
ML output = cross validation accuracy 68.0%

actual		NAm_north	NAm_south
pred			
hon		42	89
tok		0	0
sea		0	0
kag		0	0
nonSource		0	0



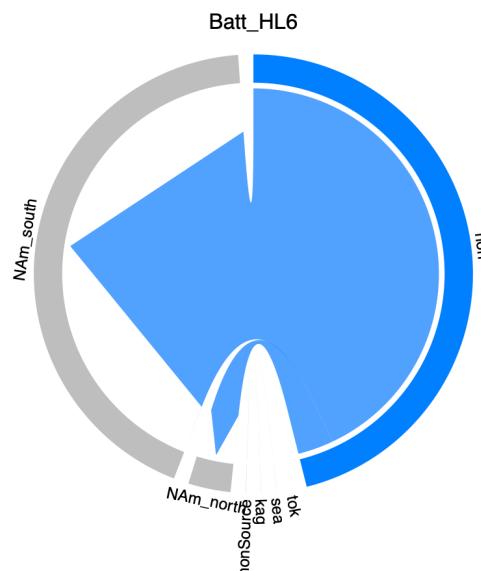


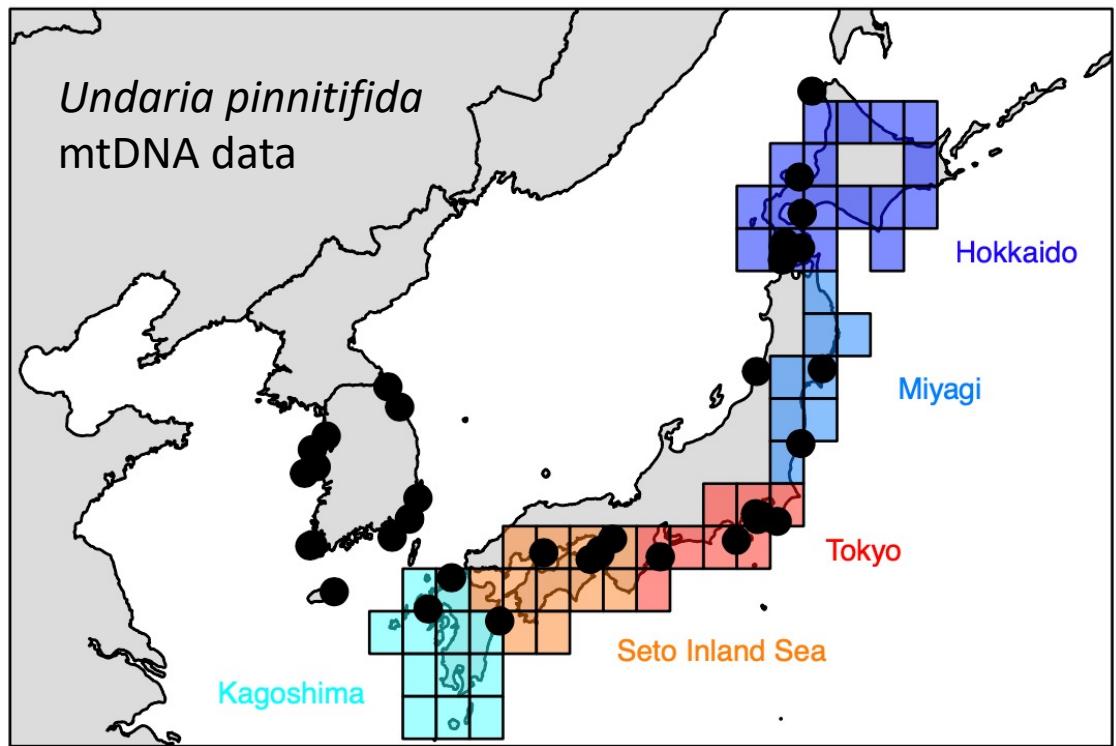
Original data – Miura et al 2006 PNAS



ML output = cross validation accuracy 67.5%

actual		
pred	NAm_north	NAm_south
hon	17	235
tok	0	0
sea	0	0
kag	0	0
nonSource	0	0



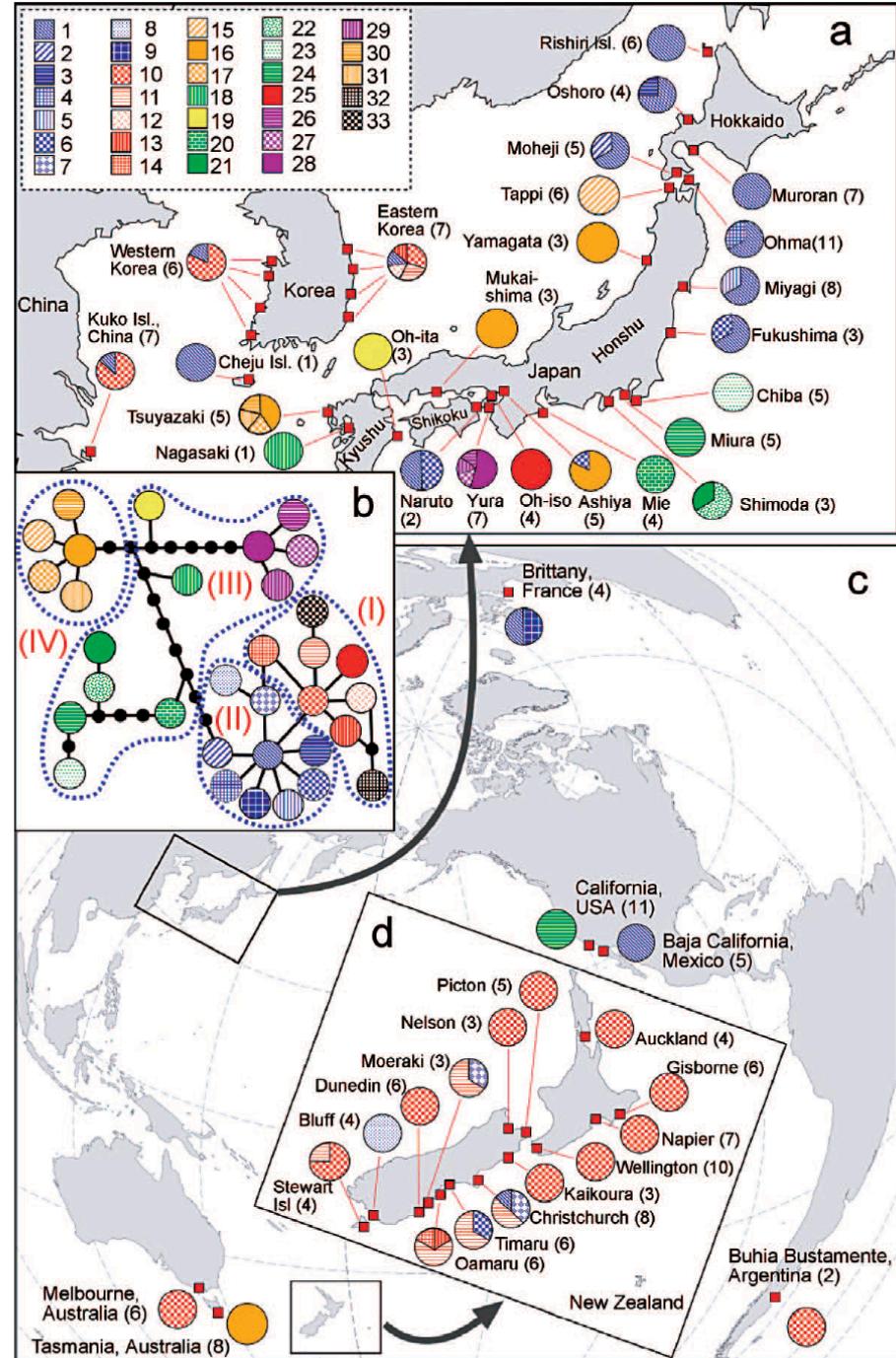
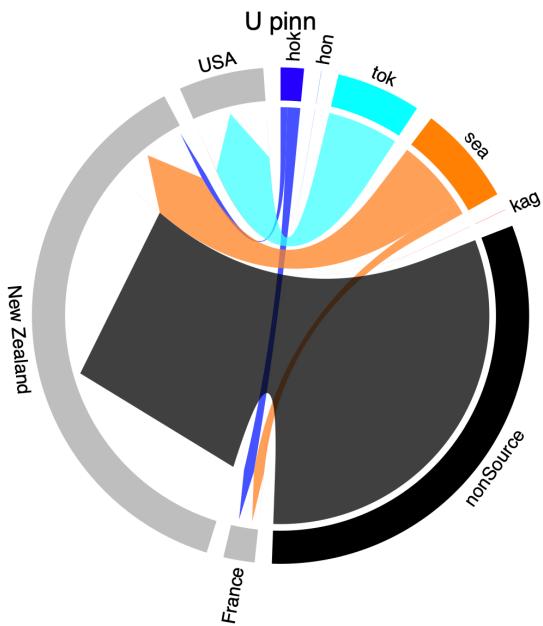


Original data –  
Uwai et al 2006

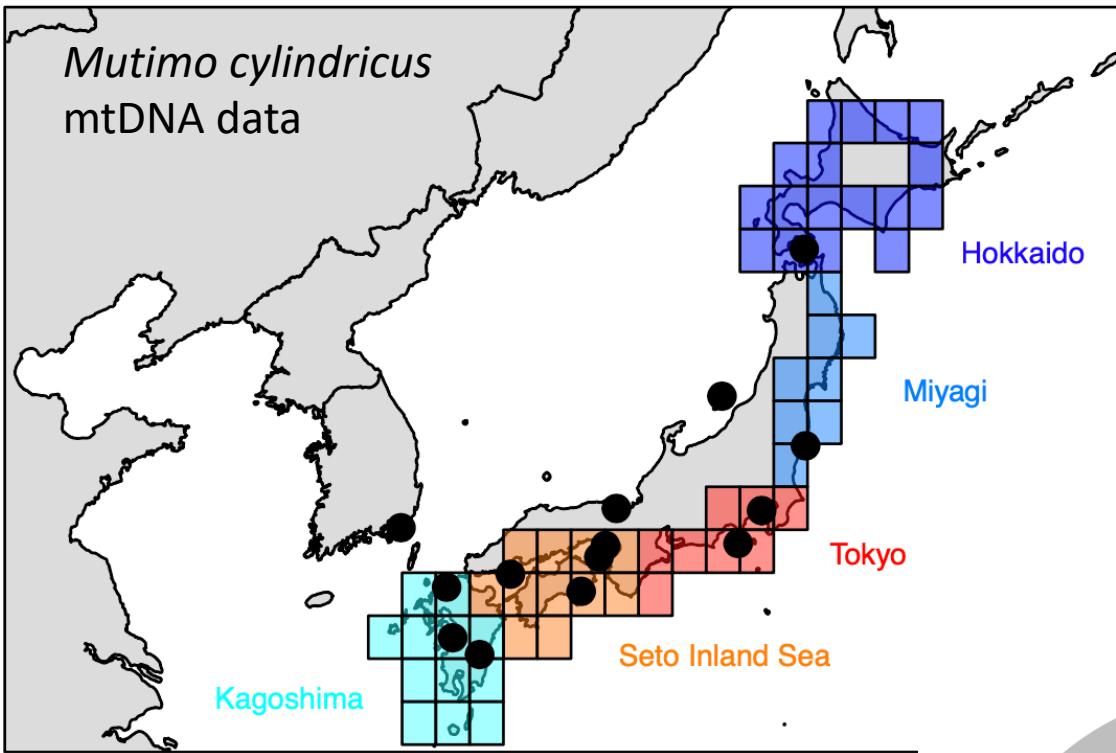
ML output = cross validation accuracy 76.4%

> LBL

		actual		
		France	New Zealand	USA
pred	hok	2	1	0
	hon	0	0	0
	tok	0	0	11
	sea	2	11	0
	kag	0	0	0
	nonSource	0	63	0



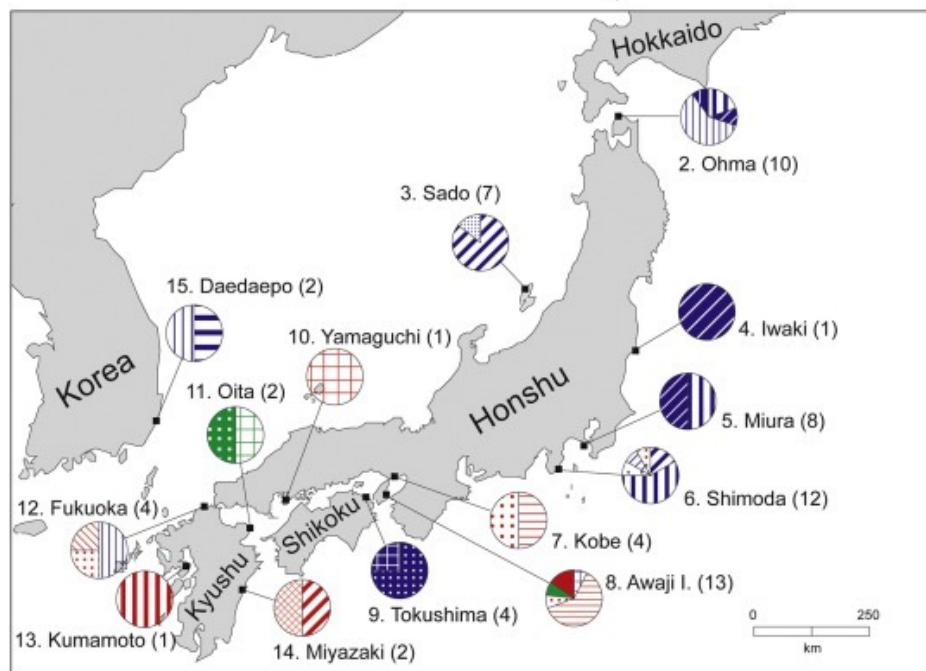
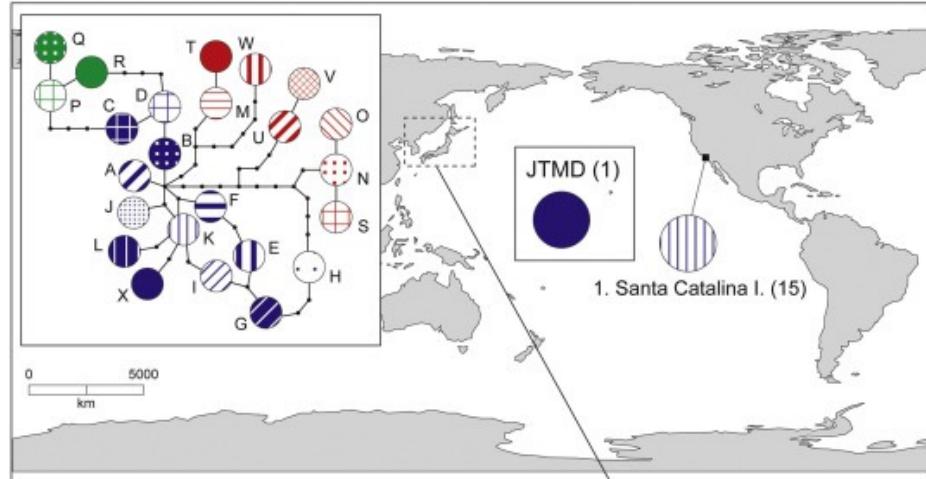
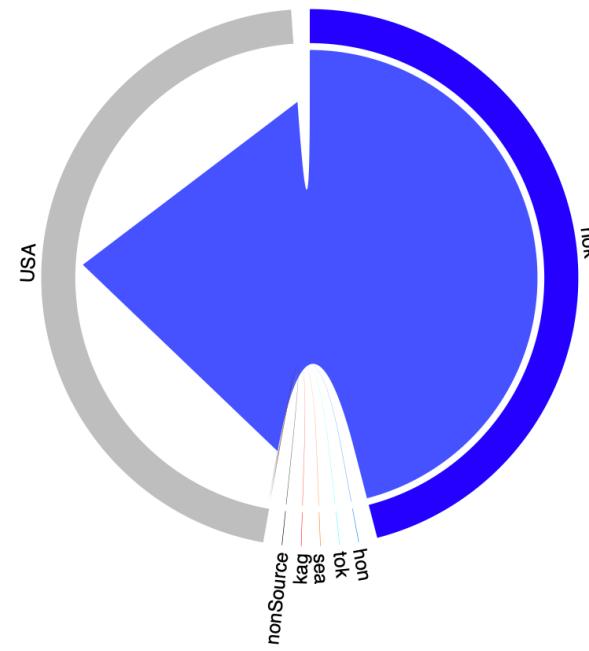
*Mutimo cylindricus*  
mtDNA data

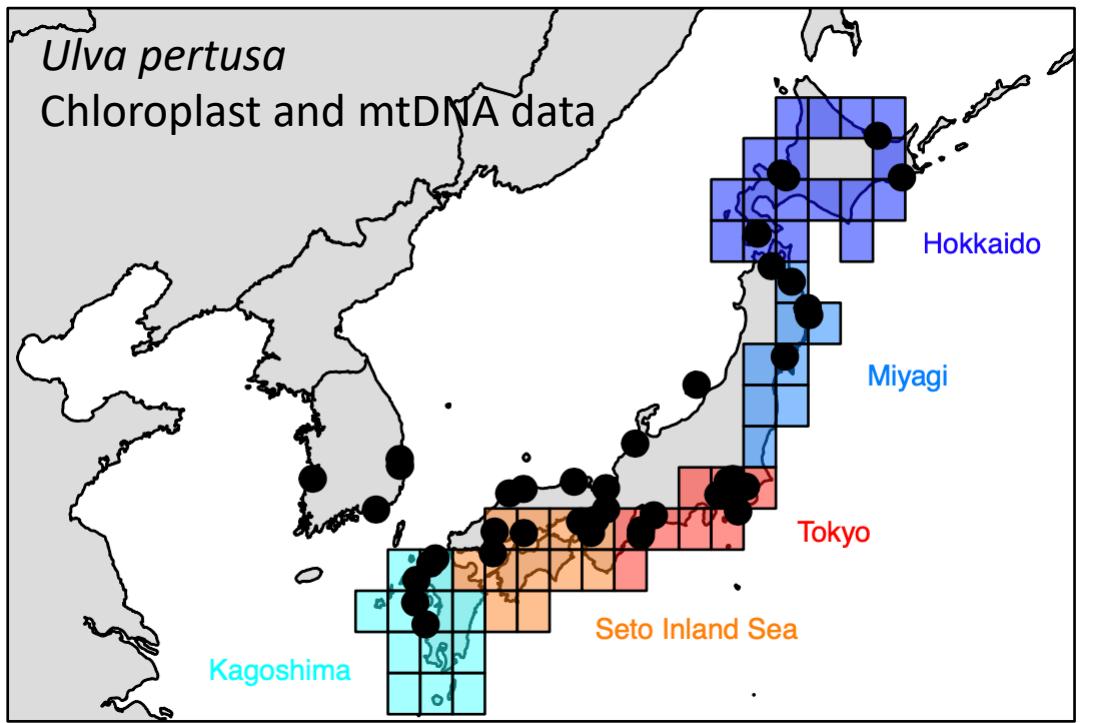


Original data –  
Hanyuda et al.  
2018

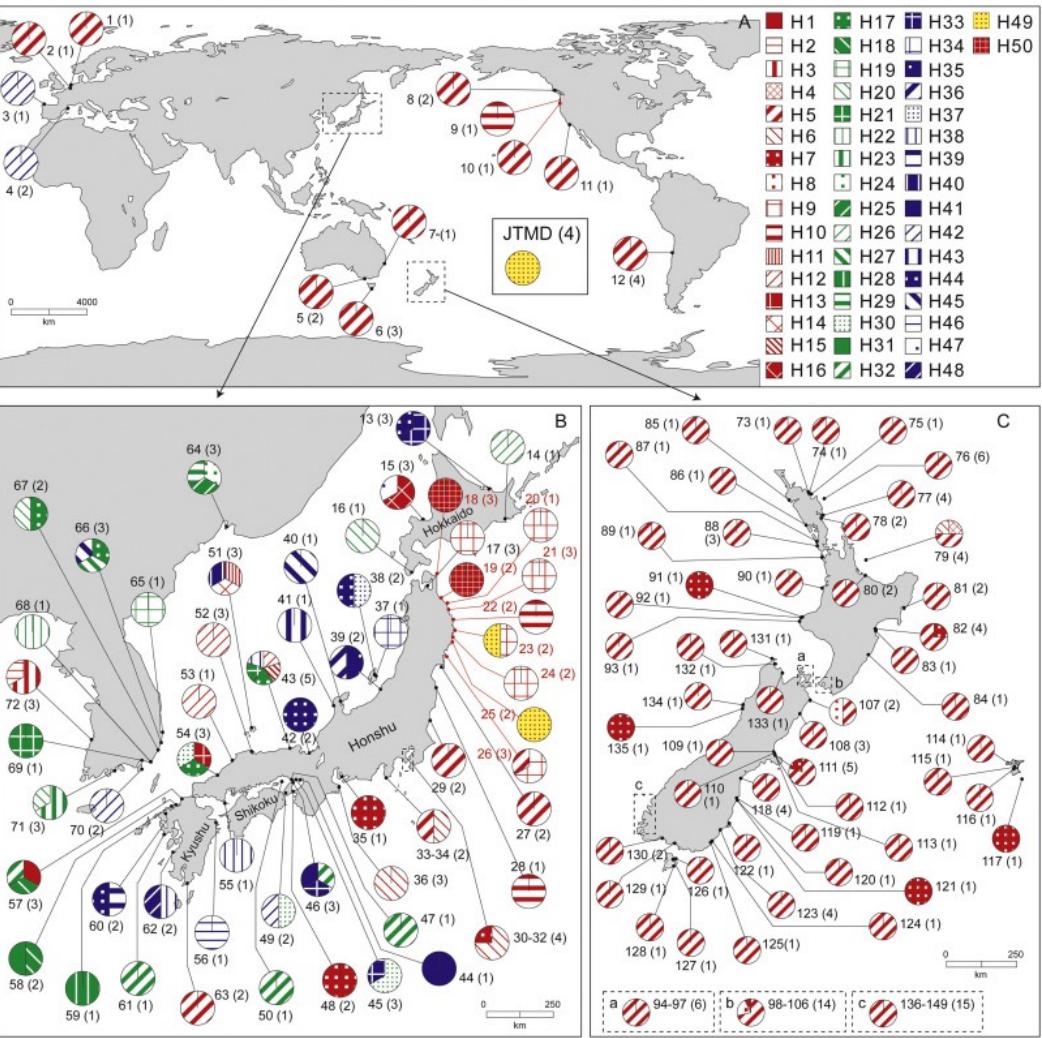
ML output = cross validation accuracy 72.7%

pred	actual
hok	USA
hon	0
tok	0
sea	0
kag	0
nonSource	0



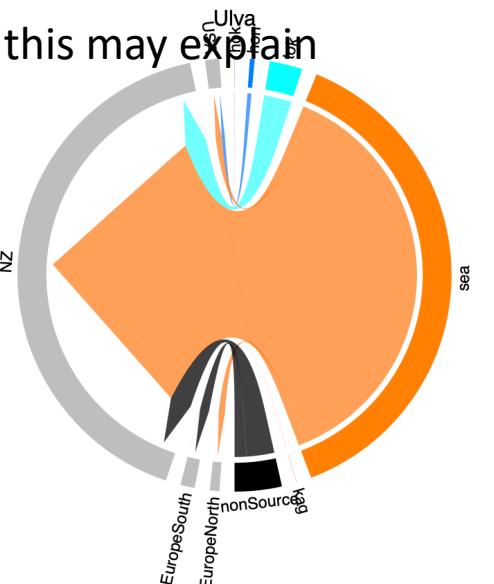


Original data –  
Hanyuda et al.  
2018



ML output = cross validation accuracy 48.4%\*\* this may explain  
The weird NZ result below.

	actual	EuropeNorth	EuropeSouth	NZ	USA
pred					
hok		0	0	0	0
hon		0	0	0	1
tok		0	0	7	0
sea		2	0	105	2
kag		0	0	0	0
nonSource		0	3	7	0



*Undaria pinnatifida*  
mtDNA data

Original data –  
Uwai et al 2006

ML output = cross validation accuracy 76.4%

## Cases with no Miyagi

