Table 7.2 Temperatures, metabolic rates and thermal conductances of petrels

Species	Temperature (°C)		RMR (kJ day ⁻¹)		F1 400	Thermal
	Body ^a (n)	Egg ^b	Adult	Hatchling	FMR° (kJ day ⁻¹)	(mW g ⁻¹ °C ⁻¹)
Diomedea exulans	39.2(10)		1755	6.62	3354	
D. epomophora	38.7(4)				3886(M), 3680(F)	
D. nigripes	38.1(10)	35.0		4.30		
D. immutabilis	37.5(10)	35.8	645	4.16	2072	
D. melanophrys	38.7(5)	35.6	043	4.10	20/2	
D. chrysostoma	39.7(8)		735		2396	
D. chlororhynchos	38.2(4)		481		2070	
D. bulleri	39.5(3)		401			
Phoebetria fusca	38.3(?)		715			
P. palpebrata	38.1(?)		713			
Macronectes giganteus	39.0(25)	35.5	1154	4.28	4270	
Transferres Biganiens	39.0(23)	33.3	1566(M), 1432(F)	4.28	4270	0.153
Fulmarus glacialis	38.5(41)		1500(IVI), 1452(F)			
F. glacialoides	38.3(23)					0.187
Thalassoica antarctica	38.5(11)					
Daption capense	39.1(29)					
Pagodroma nivea	38.7(26)					
Lugensa brevirostris	36.6(?)		195,153			
Pterodroma macroptera	37.5(5)		320,233			
P. lessonii	38.9(3)		320,233	1.66		
P. incerta	39.4(6)		213			
P. ultima	37.8(17)		213			
P. mollis	39.0(7)		151			
P. hasitata	39.1(9)		131			
P. phaeopygia	38.6(9)	34.9	469,367			
P. hypoleuca	38.2(10)	33.8	110,99,72	0.64		
Halobaena caerulea	38.4(23)	30.0	206,153	0.04		
Pachyptila vittata	38.7(16)		200,133			
P. salvini	38.9(22)		134	0.56		
P. desolata	40.3(46)		154	0.54		
P. turtur	38.6(43)			0.54		
Bulweria bulwerii	37.8(10)		44.0			
Procellaria aequinoctialis			692.545	1.82		
P. cinerea	37.5(5)		433	1.02		
Calonectris diomedea	39.6(35)		100			
C. leucomelas	40.5(74)					
Puffinus pacificus	37.7(92)	36.4	119,128.5	0.78	614	0.24
P. gravis	39.8(25)	50.4	329	0.70	014	0.24
P. griseus	37.8(3)		250			
P. tenuirostris	38.0(18)		250			
P. nativitatis	38.3(22)	35.3	127			
P. puffinus	37.8(41)	23.5	194.5 @ 23°C	0.62		0.286 @·5°C
L	57.0(11)		298 @ 5°C	0.02		0.357 @ 23°C
P. opisthomelas	37.0(4)		2,5 %, 5 €			J.J.J. (4 25 C
r. opisinomeius P. huttoni	37.3(2)					
P. Therminieri	37.8(14)					
P. assimilis	38.6(4)		147			

Table 7.2 Continued

Species	Temperature (°C)		RMR (kJ day ⁻¹)			Thermal
	Body ^a (n)	Egg ^b	Adult	Hatchlingd	FMR ^e (kJ day ⁻¹)	conductance (mW g ⁻¹ °C ⁻¹)
Oceanites oceanicus	38.9(25)	35.7	37		157	0.653
Garrodia nereis	40.7(3)					
Pelagodroma marina	41.3(3)		73			
Fregetta tropica	39.8(2)					
Oceanodroma leucorhoa	39.1(42)	35.9	45.4, 61.0	0.16	142,161,124,123	0.692.0.831
O. furcata	39.7(61)	29.7	39,55	0.15	,,,	
Pelecanoides georgicus	38.7(?)		85,122	0.33	464	
P. urinatrix	39.1(6)	35.8	126	0.31	557	

[&]quot;Mainly from Warham (1971), Jouventin and Mougin (1981), Platania et al. (1986) and Brown (unpubl.).

^{*}Values from dummy eggs excluded.
*From Iversen and Krog (1972), Vleck and Kenagy (1980), Ricklefs et al. (1980, 1986), Bech et al. (1982), Grant From Iversen and Krog (1972), Vleck and Mathew (1983), Adams and Brown (1984), Brown and Adams (1984), Ellis (1984), Brown and Adams (1984), Ellis (1984), Polity and Ricklefs (1986), Mittiow et al. (1987), Cabrielsen et al. (1988). Montevecthi

et al. (1992) and Brown (unpubl.). ^dFrom Klassen and Drent (1991).

^{*}From Adams et al. (1986), Costa and Prince (1987), Pettit et al. (1988) and Obst and Nagy (1992).

M, male; F, female.

Several figures in one cell represent determinations from several sources.