

APPENDIX

Appendix 1. Summary of Kolmogorov-Smirnov tests for population distribution between months within Sirinart National Park from September 2005

to August 2006; otherwise, * $P < 0.5$, ** $P < 0.01$, *** $P < 0.001$; ns = not significant.

month	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	June-06	July-06	Aug-06
Sept-05	ns	ns	0.001**	ns	<0.001***	0.006**	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***
Oct-05		0.002**	0.002***	0.021*	<0.001***	ns	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***
Nov-05			0.002***	ns	<0.001***	<0.001***	ns	<0.001***	<0.001***	<0.001***	<0.001***
Dec-05				0.027*	<0.001***	<0.001***	0.001**	<0.001***	<0.001***	<0.001***	<0.001***
Jan-06					0.001**	<0.001***	0.011*	<0.001***	<0.001***	<0.001***	<0.001***
Feb-06						<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***
Mar-06							<0.001***	<0.001***	<0.001***	<0.001***	<0.001***
Apr-06							<0.001***	<0.001***	<0.001***	<0.001***	<0.001***
May-06								<0.001***	ns	<0.001***	ns
June-06										<0.001***	<0.001***
July-06											ns

Appendix 2. Summary of Kolmogorov-Smirnov tests for population distribution between months within Tang Khen Bay from September 2005 to August 2006; otherwise, * $P < 0.5$, ** $P < 0.01$, *** $P < 0.001$; ns = not significant.

month	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	June-06	July-06	Aug-06
Sept-05	0.02*	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***
Oct-05		<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***
Nov-05			<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	0.015*
Dec-05				<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	ns
Jan-06					ns	<0.001***	<0.001***	<0.001***	ns	0.038*	0.001**
Feb-06						<0.001***	<0.001***	ns	0.004**	0.006**	<0.001***
Mar-06							0.012*	<0.001***	<0.001***	0.028*	ns
Apr-06								<0.001***	<0.001***	0.018*	ns
May-06								<0.001***	<0.001***	<0.001***	<0.001***
June-06									<0.001***	<0.001***	<0.001***
July-06										ns	0.016*
											ns

Appendix 3. Summary of Mann-Whitney U tests for average number of released spore between months within Sirinart National Park from

September 2005 to August 2006; otherwise, * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$; ns = not significant.

month	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	June-06	July-06	Aug-06
Sept-05	ns	ns	ns	0.003**	0.001**	0.005**	0.005**	<0.001***	<0.001***	<0.001***	<0.001***
Oct-05		ns	ns	0.003**	0.001**	0.006**	0.005**	<0.001***	<0.001***	<0.001***	<0.001***
Nov-05			ns	<0.001***	<0.001***	<0.001***	<0.001***	<0.001***	0.027*	0.017**	0.002**
Dec-05				0.026*	0.011**	0.032*	0.04*	<0.001***	<0.001***	<0.001***	<0.001***
Jan-06					ns	ns	ns	<0.001***	<0.001***	<0.001***	<0.001***
Feb-06						ns	ns	<0.001***	<0.001***	<0.001***	<0.001***
Mar-06							ns	<0.001***	<0.001***	<0.001***	<0.001***
Apr-06								<0.001***	<0.001***	<0.001***	<0.001***
May-06									ns	ns	ns
June-06										ns	ns
July-06											ns

Appendix 4. Summary of Mann-Whitney U tests for average number of released spore between months within Tang Khen Bay from September 2005 to August 2006; otherwise, * $P < 0.5$, ** $P < 0.01$, *** $P < 0.001$; ns = not significant.

month	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	June-06	July-06	Aug-06
Sept-05	0.044*	ns	0.001**	0.003**	<0.001***	ns	ns	ns	ns	ns	<0.001***
Oct-05		ns	ns	ns	<0.001***	0.02*	ns	ns	ns	ns	0.021*
Nov-05			0.003**	0.01*	<0.001***	ns	ns	ns	ns	ns	<0.001***
Dec-05				ns	0.001**	<0.001***	ns	ns	0.036*	ns	ns
Jan-06					<0.001***	0.001**	ns	ns	ns	ns	ns
Feb-06						<0.001***	<0.001***	<0.001***	<0.001***	0.021*	ns
Mar-06							ns	ns	ns	ns	<0.001***
Apr-06								ns	ns	ns	0.004**
May-06									ns	ns	0.01**
June-06										ns	0.003**
July-06											ns

Appendix 5. Summary of Mann-Whitney U tests for percentage of reproduction between months within Sirinart National Park from September 2005

to August 2006; otherwise, * $P < 0.5$, ** $P < 0.01$, *** $P < 0.001$; ns = not significant.

month	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	June-06	July-06	Aug-06
Sept-05	0.016*	ns	ns	0.006**	0.003**	0.006**	0.004**	0.025*	ns	ns	0.004**
Oct-05		ns	ns	ns	0.006**	ns	ns	0.004**	0.016**	0.004**	0.004**
Nov-05			ns	ns	0.003**	0.01**	0.01**	0.006**	ns	ns	0.004**
Dec-05				ns	ns	ns	ns	0.01**	ns	0.045**	0.004**
Jan-06					ns	ns	ns	0.004**	0.008**	0.004**	0.004**
Feb-06						ns	ns	0.003**	0.003**	0.003**	0.003**
Mar-06							ns	0.004**	0.006**	0.004**	0.004**
Apr-06								0.004**	0.005**	0.004**	0.004**
May-06									ns	ns	ns
June-06										ns	ns
July-06											ns

Appendix 6. Summary of Mann-Whitney U tests for percentage of reproduction between months within Tang Khen Bay from September 2005 to

August 2006; otherwise, * $P < 0.5$, ** $P < 0.01$, *** $P < 0.001$; ns = not significant.

month	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	June-06	July-06	Aug-06
Sept-05	ns	ns	ns	ns	ns	ns	ns	0.008**	0.037*	0.026*	ns
Oct-05		ns	ns	ns	ns	ns	ns	0.006**	0.01**	0.031*	0.031*
Nov-05			0.004**	0.004**	0.004**	ns	0.005**	0.004**	0.004**	0.046*	0.046*
Dec-05				ns	ns	0.025*	ns	0.025*	ns	0.005**	0.02*
Jan-06					ns	0.025*	ns	0.008**	ns	0.004**	0.031*
Feb-06						0.004**	ns	0.045*	ns	0.003**	0.013*
Mar-06							0.025*	0.004**	0.004**	0.02*	0.046*
Apr-06								0.025*	ns	0.005**	0.02*
May-06									ns	0.003**	0.005**
June-06										0.003**	0.008**
July-06											ns

Appendix 7. Summary of Mann-Whitney U tests for percentage of maturity between months within Sirinart National Park from September 2005 to August 2006; otherwise, * $P < 0.5$, ** $P < 0.01$, *** $P < 0.001$; ns = not significant.

month	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	June-06	July-06	Aug-06
Sept-05	0.016*	ns	ns	0.006**	0.003**	0.006**	0.004**	0.025*	ns	ns	0.004**
Oct-05		ns	ns	ns	0.009**	ns	ns	0.004**	0.016**	0.004**	0.004**
Nov-05			ns	ns	0.003**	0.01*	0.01*	0.006**	0.037*	0.006**	0.004**
Dec-05				ns	0.02*	ns	ns	0.01*	0.025*	0.055*	0.004**
Jan-06					ns	ns	ns	0.004**	0.008**	0.004**	0.004**
Feb-06						ns	ns	0.003**	0.003**	0.003**	0.003**
Mar-06							ns	0.004**	0.006**	0.004**	0.004**
Apr-06								0.004**	0.005**	0.004**	0.004**
May-06									ns	ns	ns
June-06										ns	ns
July-06											ns

Appendix 8. Summary of Mann-Whitney U tests for percentage of maturation between months within Tang Khen Bay from September 2005 to August 2006; otherwise, * $P < 0.5$, ** $P < 0.01$, *** $P < 0.001$; ns = not significant.

month	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	June-06	July-06	Aug-06
Sept-05	ns	ns	ns	ns	0.025*	ns	ns	0.01**	0.037*	0.033*	ns
Oct-05		ns	ns	ns	ns	ns	ns	ns	ns	0.033*	0.049*
Nov-05			0.004**	0.006**	0.004**	ns	0.008**	0.004**	0.004**	0.046*	0.046*
Dec-05				ns	ns	0.01**	ns	0.037*	ns	0.005**	0.02*
Jan-06					0.037*	0.016*	ns	0.006**	ns	0.005**	0.046*
Feb-06						ns	ns	ns	ns	0.003**	0.013*
Mar-06							ns	0.004**	0.025*	0.02*	0.046*
Apr-06								0.037*	ns	0.008**	0.02*
May-06									ns	0.003**	0.008**
June-06										0.005**	0.013*
July-06											ns

Appendix 9. Summary of Mann-Whitney U tests for percentage of recruitment between months within Sirinart National Park from October 2005 to

August 2006; otherwise, * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$; ns = not significant.

month	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	June-06	July-06	Aug-06
Oct-05	ns	0.001**	0.003**	0.002**	ns	ns	ns	ns	ns	ns
Nov-05		0.007***	0.014*	0.008**	ns	ns	ns	ns	ns	ns
Dec-05			ns	ns	ns	0.009**	<0.001***	0.033*	ns	ns
Jan-06				ns	ns	0.018*	0.001**	ns	ns	ns
Feb-06					ns	0.013*	0.001**	0.042*	ns	ns
Mar-06						ns	0.037*	ns	ns	ns
Apr-06							ns	ns	ns	ns
May-06								ns	0.03*	ns
June-06									ns	ns
July-06										ns

Appendix 10. Summary of Mann-Whitney U tests for percentage of recruitment between months within Tang Khen Bay from September 2005 to August 2006; otherwise, * $P < 0.5$, ** $P < 0.01$, *** $P < 0.001$; ns = not significant.

month	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	June-06	July-06	Aug-06
Oct-05	0.027*	<0.001***	0.003***	0.009**	0.024*	0.005**	0.002**	0.003**	ns	ns
Nov-05		ns	ns	ns	ns	ns	ns	ns	ns	ns
Dec-05			ns	ns	ns	ns	ns	ns	0.029*	0.032*
Jan-06				ns	ns	ns	ns	ns	0.008**	0.014*
Feb-06					ns	ns	ns	ns	0.025*	ns
Mar-06						ns	ns	ns	ns	ns
Apr-06							ns	ns	0.05*	ns
May-06								ns	0.021*	0.035*
June-06									ns	ns
July-06										ns

Appendix 11. Comparison of the total rainfall between Sirinart National Park and

Tang Khen Bay from September 2005 to August 2006

http://www.tmd.go.th/province_stat.php?StationNumber=48565).

month	Total rainfall (mm ³)	
	SNP	TKB
Sept-05	349.5	263.5
Oct-05	412	226.7
Nov-05	297	239
Dec-05	98.1	102.8
Jan-06	15.9	20.5
Feb-06	3	9.1
Mar-06	128.3	185.8
Apr-06	90.8	no data
May-06	286.6	242
June-06	381.9	297
July-06	186.7	213.7
Aug-06	252.4	168.8