

S2 Table. Summary of the models applied to map the annual distribution of recruits of demersal commercial species in Mediterranean FAO-GFCM Geographical Sub-Areas (GSAs).

European hake: final models

GSA	Period	Model Type	Covariates	Goodness of fit			
				Explained Deviance (%)	R ² adj	R ²	CVI
5	2007-2010	ZIGAM: Presence-absence data	year, depth, lat, lon	59.2	0.68		
		Non-zero data	year, depth, lat, lon	41.8			
1, 6	1994-2010	ZIGAM: Presence-absence data	depth, lat, lon	46.8	0.62		
		Non-zero data	year, depth, lat, lon	36.2			
7	1994-2010	GAMM	year, depth, distance from the coast + spatial component			0.53	1.03
9	1994-2010	GAMM	year, depth, distance from the coast, bottom steepness + spatial component			0.52	0.98
10	1994-2010	ZIGAM: Presence-absence data	depth + spatial component	23.2	0.2		
		Non-zero data		51.7	0.56		
11	1994-2010	ZIGAM: Presence-absence data	depth + spatial component	23.4	0.2		
		Non-zero data		34.1	0.38		
18	1996-2010	ZIGAM: Presence-absence data	depth + spatial component	20.2	0.18		
		Non-zero data		47.3	0.53		
19	1994-2010	ZIGAM: Presence-absence data	depth + spatial component	27	0.2		
		Non-zero data		40.9	0.38		
15, 16	2003-2010	GAMM	year, distance from the coast, + spatial component			0.58	0.99
17	2002-2010	ZIGAM: Presence-absence data	year, depth, lat, lon	54.9	0.6		
		Non-zero data		61.4	0.6		
20	1999-2008	ZIGAM: Presence-absence data	year, depth, lat, lon	50.7	0.51		
		Non-zero data		47.7	0.36		
22-23	1996-2008	ZIGAM: Presence-absence data	year, depth, lat, lon	3.5	0.36		
		Non-zero data		38.1	0.33		

European hake in GSAs 10, 11, 18, 19. Parameters of ordinary kriging applied on the residuals of ZIGAM models.

A pooled empirical variogram was computed by taking the mean of all annual semi-variances within each lag class (Morfin et al., 2012)

GSA	Covariance function	Range (km)	Sill	Nugget	CVI
10	Gaussian	7.04	8.49E+06	2.81E+06	0.31
11	Exponential	19.50	1.70E+07	2.74E+06	1.42
18	Gaussian	12.25	1.29E+06	2.75E+05	0.69
19	Exponential	24.23	9.29E+04	3.32E+04	0.67

European hake in GSA 7. Parameters of ordinary kriging applied on GAM residuals

GSA	Year	Model Type	Covariance function	Nugget	Sill	Range (km)
7	1994	Ordinary Kriging	Spherical	0.06	4.60	6.75
	1995		Spherical	0	7.03	8.89
	1997		Exponential	0	3.35	12.22
	1998		Exponential	0	3.15	1.03
	1999		Exponential	0.12	3.38	0.33
	2000		Spherical	1	1.80	0.65
	2001		Exponential	0.0	2.38	9.37
	2002		Spherical	0	3.01	16.70
	2003		Spherical	1.7	3.07	19.88
	2004		Exponential	0.5	1.57	1.81
	2005		Spherical	0	3.53	6.03
	2006		Spherical	0.63	1.45	38.45
	2007		Exponential	1.2	2.66	11.90
	2008		Spherical	1.455	1.164	2
2009	Spherical	0.343	2.991	4.775		
2010	Spherical	0.897	4.483	5		

European hake in GSA 9. Parameters of ordinary kriging applied on GAM residuals

GSA	Year	Model Type	Covariance function	Nugget	Sill	Range (km)
9	1994	Ordinary Kriging	Spherical	4.24	3.66	30.97
	1995		Spherical	2.43	6.26	29.44
	1996		Spherical	0.65	8.35	19.32
	1997		Spherical	2.97	7.37	31.61
	1998		Spherical	1.16	10.15	16.33
	1999		Spherical	1.03	9.48	18.43
	2000		Spherical	2.50	6.16	25.56
	2001		Spherical	0.00	8.71	12.05
	2002		Spherical	0.00	10.62	18.04
	2003		Spherical	0.00	8.76	17.09
	2004		Spherical	1.99	7.98	18.71
	2005		Spherical	0.00	9.13	8.48
	2006		Spherical	5.32	3.73	32.70
	2007		Spherical	1.15	7.91	8.13
	2008		Spherical	2.06	7.93	24.95
2009	Spherical	0.00	11.17	17.10		
2010	Spherical	0.897	4.483	5		

Red mullet: final models

GSA	Period	Model Type	Covariates	Goodness of fit	
				Explained Deviance (%)	R ² adj
17	2002-2008	ZIGAM: Presence-absence data Non-zero data	depth, year, lon, lat	41.8	0.31
				54.8	0.42

GSA	Period	Model Type	*Covariance function	Range (km)	Sill	Nugget	CVI
18	1999,2005, 2007	Ordinary kriging:	Gaussian	15.46	1.23E+07	4.08E+06	0.01

* pooled empirical variogram was computed by taking the mean of all annual semi-variances within each lag class (Morfin et al., 2012)

Common pandora: final models

GSA	Period	Model Type	Covariates	Goodness of fit	
				Explained Deviance (%)	R ² adj
17	2002-2008	ZIGAM: Presence-absence data	depth, year, lon, lat	31.3	0.18
		Non-zero data		33.1	0.23

GSA	Period	Model Type	*Covariance function	Range (km)	Sill	Nugget	CVI
10	2002-2008	Ordinary kriging	Gaussian	20.98	3.61E+05	1.00E-02	0.01
11	1994-2010	Ordinary kriging	Spherical	20.98	3.61E+05	1.00E-02	3.18
18	1996-2010	Ordinary kriging	Gaussian	11.58	1.42E+04	4.85E+02	0.47

* pooled empirical variogram was computed by taking the mean of all annual semi-variances within each lag class (Morfin et al., 2012)

Thornback ray: final models

GSA	Period	Model Type	Covariates	Goodness of fit			
				Explained Deviance (%)	R ² adj	R ²	CVI
11	1994-2010	ZIGAM: Presence-absence data Non-zero data	+ spatial component	9.48	0.05		
				22.24	0.19		
15, 16	2003-2010	GLMM	-			0.39	1.56

Thornback ray in GSAs 15-16. Parameters of ordinary kriging applied on the residuals of ZIGAMs.

GSA	Year	Model Type	Covariance function	Nugget	Sill	Range (km)
15, 16	2003	Ordinary Kriging	Exponential	0.56	1.45	16.83
	2004		Exponential	1.25	0.41	45.36
	2005		Exponential	0.85	0.97	30.22
	2006		Exponential	1.48	0.99	84.82
	2007		Exponential	0.00	1.23	18.20
	2008		Exponential	0.00	2.30	14.11
	2009		Exponential	0.00	1.25	9.73
	2010		Exponential	0.00	1.42	23.61

Blackmouth catshark: final models

GSA	Period	Model Type	Covariates	Goodness of fit			
				Explained Deviance (%)	R ² adj	R ²	CVI
5	2007-2010	ZIGAM: Presence-absence data Non-zero data	year, depth	45.4	0.63		
				39			
1, 6	2000-2010	ZIGAM: Presence-absence data Non-zero data	year, depth, lon, lat	26.2	0.28		
				35.5			
7	2003-2009	GAM	year, lat			0.42	1.05
9	1999-2010	Bayesian GLMM				0.84	0.5
10	1999-2010	ZIGAM: Presence-absence data Non-zero data	Depth + spatial component	43.33	0.41		
				19.31	0.16		
11	1999-2010	ZIGAM: Presence-absence data Non-zero data	depth+ spatial component	60.18	0.59		
				21.78	0.17		
15, 16	2003-2010	GLMM	-			0.61	0.99
18	1999:2002, 2004:2010	ZIGAM: Presence-absence data Non-zero data	depth	32.2	0.32		
				5.6	0.1		
19	1995-2010	ZIGAM: Presence-absence data Non-zero data	depth	18.5	0.2		
				29.2	0.1		

Blackmouth catshark in GSAs 10, 11, 18, 19. Parameters of ordinary kriging applied on the residuals of ZIGAMs.

A pooled empirical variogram was computed by taking the mean of all annual semi-variances within each lag class (Morfin et al., 2012)

GSA	Covariance function	Range (km)	Sill	Nugget	CVI
10	Gaussian	15.84	4.37E+04	1.82E+04	4.47
11	Exponential	12.52	1.26E+06	6.01E+03	5.02
18	Exponential	11.01	1.00E+04	3.62E+03	3.10
19	Exponential	24.23	9.29E+04	3.32E+04	0.67

Blackmouth catshark in GSA 9. Parameters of ordinary kriging applied on GLM residuals

GSA	Year	Model Type	Covariance function	Nugget	Sill	Range (km)
9	1999	Ordinary Kriging	Spherical	0.415	2.04	32.788
	2000		Spherical	0.676	2.201	35.528
	2001		Spherical	0.625	2.168	36.049
	2002		Spherical	0.874	1.707	41.997
	2003		Spherical	0.547	1.698	91.262
	2004		Spherical	0.696	1.539	48.51
	2005		Spherical	0.727	1.14	19.714
	2006		Spherical	0.603	2.176	54.905
	2007		Spherical	0	2.631	7.985
	2008		Spherical	0.964	2.062	27.416
	2009		Spherical	1.119	1.371	63.757
2010	Spherical	1.096	1.494	60.181		

Blackmouth catshark in GSA 15-16. Parameters of ordinary kriging applied on GLM residuals

GSA	Year	Model Type	Covariance function	Nugget	Sill	Range (km)
15-16	2003	Ordinary Kriging	Exponential	1.03	2.46	38.43
	2004		Spherical	1.57	2.33	40.40
	2005		Spherical	0.94	3.36	43.33
	2006		Spherical	2.18	2.13	107.37
	2007		Spherical	1.67	3.49	86.42
	2008		Spherical	0.82	5.26	65.12
	2009		Spherical	1.40	5.24	127.64
	2010		Exponential	1.79	3.32	72.15

Common sole: final models

GSA	Year	Model Type	Covariance function	lag	Nugget	Sill	Range (km)
17	2005	Ordinary Kriging	Spherical	3700	0.05	0.09	18.52
	2006		Spherical	3700	0.05	0.04	18.52
	2007		Exponential	3700	0.05	0.07	13.89
	2008		Spherical	3700	0.05	0.05	14.816
	2009		Spherical	3700	0.71	0.05	18.52
	2010		Spherical	3700	0	0.13	16.668

Deep-water rose shrimp: final models

GSA	Period	Model Type	Covariates	Goodness of fit			
				Explained Deviance (%)	R ² adj	R ²	CVI
1, 6	1995-2004, 2006-2007, 2009-2010	ZIGAM: Presence-absence data	year, depth, lat, lon	29	0.21		
		Non-zero data	year, depth,	31.8			
9	1994-2010	Bayesian GLMM	lat, bottom steepness + spatial component			0.87	0.49
10	1994-2010	ZIGAM: Presence-absence data	depth + spatial component	30.7	0.34		
		Non-zero data		26.1	0.23		
11	1995-2010	ZIGAM: Presence-absence data	depth + spatial component	28.1	0.18		
		Non-zero data		31.6	0.2		
19	1996-2010	ZIGAM: Presence-absence data	depth + spatial component	52.8	0.52		
		Non-zero data		17.9	0.15		
15, 16	2003-2010	GLMM	year, distance from the coast, + spatial component			0.65	0.99
17	2002-2010	ZIGAM: Presence-absence data	year, depth, lat, lon	63.9	0.49		
		Non-zero data		57.3	0.64		
22-23	1996-2008	ZIGAM: Presence-absence data	year, depth, lat, lon	63	0.58		
		Non-zero data					

GSA	Period	Model Type	*Covariance function	Range (km)	Sill	Nugget	CVI
18	1999-2002	Ordinary kriging	Exponential	17.85	5.60E+04	8.77E+02	1.81
	2004-2010						

*Residuals modelled using the Inverse Distance Weighting with 5 as power coefficient

Deep-water rose shrimp in GSAs 10, 11, 18, 19. Parameters of ordinary kriging applied on the residuals of ZIGAMs.

A pooled empirical variogram was computed by taking the mean of all annual semi-variances within each lag class (Morfin et al., 2012)

GSA	Covariance function	Range (km) (km)	Sill	Nugget	CVI
10	Exponential	14.46	1.73E+05	9.87E+04	0.57
11	Exponential	38.10	1.12E+04	9.59E+02	1.71
19	Spherical	54.48	2.11E+06	6.49E+05	1.83

Deep-water rose shrimp in GSA 9. Parameters of ordinary kriging applied on residuals of Bayesian GLM

GSA	Year	Model Type	Covariance function	Nugget	Sill	Range (km)
9	1996	Ordinary kriging	Spherical	1.23	0.88	12.65
	1997		Spherical	0.45	1.67	15.25
	1998		Spherical	0.36	1.62	15.38
	1999		Spherical	1.03	1.61	15.19
	2000		Spherical	0.91	1.58	14.94
	2001		Spherical	0.34	1.46	14.16
	2002		Spherical	2.45	1.49	14.30
	2003		Spherical	2.60	1.50	14.35
	2004		Spherical	0.41	1.47	14.13
	2005		Spherical	2.84	1.46	14.09

	2006		Spherical	0.22	1.28	12.90
	2007		Spherical	0.82	1.32	13.20
	2008		Spherical	0.92	1.29	13.02
	2009		Spherical	3.49	1.32	13.20
	2010		Spherical	4.42	1.34	13.37

Deep-water rose shrimp in GSA 15-16. Parameters of ordinary kriging applied on GLM residuals

GSA	Year	Model Type	Covariance function	Nugget	Sill	Range (km)
15-16	2003	Ordinary kriging	Spherical	3.21	10.9	54.90
	2004		Spherical	0	13.5	16.05
	2005		Spherical	1.24	8.21	20.88
	2006		Spherical	1.95	8.96	18.00
	2007		Spherical	0	7.44	20.95
	2008		Spherical	0	12.26	23.86
	2009		Spherical	0	11.55	22.71
	2010		Spherical	0	10.45	23.07

Norway lobster: final models

GSA	Period	Model Type	Covariates	Goodness of fit			
				Explained Deviance (%)	R ² adj	R ²	CVI
		Non-zero data		40.9	0.38		
15, 16	2003-2010	GLMM	spatial component			0.38	0.99
17	2002-2010	ZIGAM: Presence-absence data	year, depth, lat, lon	53.9	0.43		
		Non-zero data		67.3	0.54		

GSA	Period	Model Type	*Covariance function	Range (km) (km)	Sill	Nugget	CVI
19	1994-2010	Ordinary kriging	Spherical	73.5	3.17E+02	1.79E+02	0.20
11	1999-2001 2003-2010	Ordinary kriging	Spherical	28.3	1.99E+03	4.44E+02	0.44

Norway lobster in GSA 15-16. Parameters of ordinary kriging applied on GLM residuals

GSA	Year	Model Type	Covariance function	Nugget	Sill	Range (km)
15-16	2003	Ordinary kriging	Spherical	0.68	0.27	27.04
	2004		Spherical	1.00	1.46	78.16
	2005		Spherical	0.00	2.23	12.64
	2006		Exponential	1.81	1.04	15.66
	2007		Spherical	1.86	1.65	14.66
	2008		Spherical	0.54	3.91	27.07
	2009		Spherical	0.50	3.98	33.74

	2010		Spherical	0.99	2.87	20.62
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Giant red shrimp: final models

GSA	Period	Model Type	Covariates	Goodness of fit			
				Explained Deviance (%)	R ² adj	R ²	CVI
15-16	2003-2010	GAMM	lat, distance from the coast + spatial component			0.43	0.95
10	1994-2010	ZIGAM: Presence-absence data Non-zero data	depth + spatial component	35.54	0.41		
				16.11	0.11		
11	1994-2010	ZIGAM: Presence-absence data Non-zero data	depth + spatial component	37.8	0.39		
				9.48	0.10		
18	1996:2006 2008:2010	ZIGAM: Presence-absence data Non-zero data	depth + spatial component	32.25	0.30		
				12.72	0.07		
19	2002-2010	ZIGAM: Presence-absence data Non-zero data	year, depth, lat, lon	25.0	0.20		
				41.6	0.40		

Giant red shrimp in GSAs 10, 11, 18, 19. Parameters of ordinary kriging applied on the residuals of ZIGAM models.

A pooled empirical variogram was computed by taking the mean of all annual semi-variances within each lag class (Morfin et al., 2012)

GSA	Covariance function	Range (km)	Sill	Nugget	CVI
10	Gaussian	17.85	5.08E+06	1.52E+06	2.01
11	Gaussian	34.67	3.00E+06	1.30E+06	0.52
18	Exponential	6.56	4.67E+04	1.33E+03	0.03
19	Gaussian	68.29	9.84E+04	5.07E+04	0.05

Giant red shrimp in GSA 15-16. Parameters of ordinary kriging applied on GLM residuals

GSA	Year	Model Type	Covariance function	Nugget	Sill	Range (km)
15-16	2003	Ordinary kriging	Spherical	0	3.67	17.48
	2004		Spherical	0.27	3.56	20.45
	2005		Spherical	0	3.74	10.25
	2006		Spherical	0	2.03	13.09
	2007		Exponential	0.11	3.55	8.16
	2008		Spherical	0	3.17	8.07
	2009		Spherical	0	2.74	12.63
	2010		Spherical	0	1.99	19.71

Horned octopus: final models

GSA	Period	Model Type	Covariates	Goodness of fit			
				Explained Deviance (%)	R ² adj	R ²	CVI
7	1994-2009	GAMM	year, distance from the coast , bottom steepness + spatial component			0.51	1.03
9	1994-2010	GAMM	year, depth, distance from the coast, bottom steepness + spatial component			0.38	1.01
10	1994-2010	ZIGAM: Presence-absence data Non-zero data	depth + spatial component	27.88	0.23		
				35.87	0.3		
11	1994-2010	ZIGAM: Presence-absence data Non-zero data	depth + spatial component	23.41	0.28		
				15.11	0.12		
18	1996-2010	ZIGAM: Presence-absence data Non-zero data	depth + spatial component	19.55	0.14		
				24.25	0.18		
19	1994-2010	ZIGAM: Presence-absence data Non-zero data	depth + spatial component*	11.2	0.1		
				19.55	0.14		
17	2002-2010	ZIGAM: Presence-absence data	year, depth, lat, lon	40.8	0.38		
		Non-zero data		52.7	0.47		
		Non-zero data		47.7	0.36		
22-23	1998-2008	ZIGAM: Presence-absence data Non-zero data	year, depth, lat, lon	47.9	0.40		

*Residuals modelled using the Inverse Distance Weighting with 5 as power coefficient

Horned octopus in GSAs 10, 11, 18, 19. Parameters of ordinary kriging applied on the residuals of ZIGAMs.

A pooled empirical variogram was computed by taking the mean of all annual semi-variances within each lag class (Morfin et al., 2012)

GSA	Covariance function	Range (km)	Sill	Nugget	CVI
10	Spherical	15.13	3.36E+03	1.27E+03	0.14
11	Exponential	17.78	1.74E+04	6.89E+03	0.43
18	Exponential	9.34	8.19E+03	4.58E+02	0.10
19	Gaussian	68.29	9.84E+04	5.07E+04	0.05

Horned octopus in GSA 9. Parameters of ordinary kriging applied on the GAM residuals

GSA	Year	Model Type	Covariance function	Nugget	Sill	Range (km)
9	1994	Ordinary kriging	Spherical	1.07	2.08	25.17
	1995		Spherical	1.59	1.57	29.80
	1996		Spherical	1.98	1.02	30.98
	1997		Spherical	2.17	1.06	35.30
	1998		Spherical	0.00	3.07	8.11
	1999		Spherical	0.68	1.69	26.60
	2000		Spherical	0.00	2.64	16.49
	2001		Spherical	1.95	1.75	30.09
	2002		Spherical	0.00	3.11	14.84
	2003		Spherical	0.00	3.11	10.61

	2004		Spherical	0.50	2.33	18.89
	2005		Spherical	2.05	0.99	74.66
	2006		Spherical	1.27	1.24	25.73
	2007		Spherical	0.00	2.58	13.41
	2008		Spherical	0.26	1.99	10.00
	2009		Spherical	1.52	0.98	26.40
	2010		Spherical	1.07	2.08	25.17

Horned octopus in GSA 7. Parameters of ordinary kriging applied on GAM residuals

GSA	Year	Model Type	Covariance function	Nugget	Sill	Range (km)
7	1994	Ordinary kriging	Spherical	0.00	3.66	19.03
	1997		Spherical	0.17	2.01	24.41
	1998		Spherical	0.30	2.31	8.03
	1999		Spherical	0.00	2.06	12.57
	2000		Spherical	0.12	3.52	19.05
	2001		Spherical	0.00	4.45	17.05
	2003		Spherical	1.15	1.36	34.21
	2004		Spherical	1.60	1.66	49.46
	2005		Spherical	0.00	2.58	21.74
	2007		Spherical	2.13	3.37	31.40
	2008		Spherical	0.00	3.07	9.68

	2009		Spherical	0.00	4.32	6.30
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Broadtail shortfin squid: final models

GSA	Period	Model Type	Covariates	Goodness of fit			
				Explained Deviance (%)	R ² adj	R ²	CVI
9	1994-2010	GAMM	distance from the coast + spatial component			0.39	1.01
15-16	2003-2010	GAMM	lat, lon+ spatial component			0.46	0.96
1-6	1995-1997, 1999-2006, 2008-2010	ZIGAM: Presence-absence data Non-zero data	year, lat, lon, depth	26.8	0.31		
				24.5			
10	1994-2010	ZIGAM: Presence-absence data Non-zero data	depth + spatial component	31.73	0.33		
				23.55		0.18	
11	1994-2010	ZIGAM: Presence-absence data Non-zero data	depth + spatial component	30.72	0.3		
				20.67		0.17	
18	1996-2010	ZIGAM: Presence-absence data Non-zero data	depth + spatial component	28.12	0.33		
				17.07		0.14	
19	1994-2010	ZIGAM: Presence-absence data Non-zero data	depth + spatial component*	33.0	0.3		
				20.9		0.2	
20	1998-2008	ZIGAM: Presence-absence data Non-zero data	year, depth, lat, lon	52.3	0.45		

GSA	Year	Model Type	Model	lag	Nugget	Sill	Range (km)
17	2002	Ordinary Kriging	Exponential	18520	0	117475 5	101415
	2003		Spherical	18520	4444	16835	35478
	2004		Exponential	18520	68579	145327	253044
	2005		Exponential	18520	3396	36080	32057
	2006		Spherical	3000	15344	40264	4244
	2007		Spherical	9000	0	278989	18245

GSA	Year	Model Type	Model	lag	Nugget	Sill	Range (km)
	2008		Exponential	9000	13831	18934	54346
	2009		Exponential	18520	0	14696	116820
	2010		Spherical	18520	8593	4525	37899

Broadtail shortfin squid in GSAs 10, 11, 18, 19. Parameters of ordinary kriging applied on the residuals of ZIGAMs.

A pooled empirical variogram was computed by taking the mean of all annual semi-variances within each lag class (Morfin et al., 2012)

GSA	Covariance function	Range (km)	Sill	Nugget	CVI
10	Gaussian	8.46	1.09E+06	1.99E+04	0.01
11	Exponential	18.59	2.25E+05	1.40E+04	0.02
18	Spherical	39.52	1.08E+06	3.67E+05	0.26
19	Spherical	15.77	8.13E+04	4.12E+03	1.28

Broadtail shortfin squid in GSA 9. Parameters of ordinary kriging applied on GAM residuals

GSA	Year	Model Type	Covariance function	Nugget	Sill	Range (km)
9	1994		Spherical	1.53	0.20	31.73
	1995		Spherical	1.96	1.06	28.63
	1996		Spherical	0.00	3.93	13.82
	1997		Exponential	0.11	4.76	17.30
	1998		Spherical	2.29	1.62	25.43
	1999		Spherical	1.16	1.05	24.54
	2000		Spherical	0.55	2.71	8.29
	2001		Spherical	1.30	0.95	22.62

	2002	Ordinary kriging	Spherical	3.60	2.54	36.75
	2003		Spherical	0.52	2.01	18.11
	2004		Spherical	0.50	0.63	18.07
	2005		Spherical	0.00	6.09	7.95
	2006		Spherical	0.00	2.79	22.62
	2007		Spherical	0.00	5.08	7.14
	2008		Spherical	0.00	2.33	14.15
	2009		Spherical	1.53	0.20	31.73
	2010		Spherical	1.96	1.06	28.63

Broadtail shortfin squid in GSA 15-16. Parameters of ordinary kriging applied on the residuals of GAM

GSA	Year	Model Type	Covariance function	Nugget	Sill	Range (km)
15-16	2003	Ordinary kriging	Spherical	0.00	6.68	20.49
	2004		Spherical	0.00	4.23	14.55
	2005		Spherical	1.12	1.16	15.61
	2006		Spherical	1.30	1.17	12.46
	2007		Exponential	0.12	4.66	18.32
	2008		Spherical	0.00	3.12	16.91
	2009		Spherical	0.00	2.85	14.81
	2010		Spherical	0.00	2.03	13.61

References: Morfin M, Fromentin J-M, Jadaud A, Bez N (2012) - *Spatio-Temporal Patterns of Key Exploited Marine Species in the Northwestern Mediterranean Sea*. PLoS ONE 7(5): e37907. doi:10.1371/journal.pone.0037907.