

*Mediterranean demersal resources and ecosystems:
25 years of MEDITS trawl surveys*
M.T. Spedicato, G. Tserpes, B. Mériçot and
E. Massutí (eds)

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Spatio-temporal trends in diversity of demersal fish assemblages in the Mediterranean

M. Teresa Farriols, Francesc Ordines, Pierluigi Carbonara, Loredana Casciaro, Manfredi Di Lorenzo, Antonio Esteban, Cristina Follesa, Cristina García-Ruiz, Igor Isajlovic, Angélique Jadaud, Alessandro Ligas, Chiara Manfredi, Bojan Marceta, Panagiota Peristeraki, Nedo Vrgoc, Enric Massutí

Supplementary material

Table S1. – Temporal series of fishing effort measures in number of vessels, kilowatt per days at sea (kW*days at sea) and gross tonnage per days at sea (GT*days at sea) for each GSA and species. Species considered in each depth stratum are i) *Mullus barbatus* or *Mullus surmuletus* for the continental shelf; ii) *Nephrops norvegicus* or *Parapenaeus longirostris* for the shelf break/upper slope; and iii) *Aristeus antennatus* or *Aristaeomorpha foliacea* for the lower slope. Effort measures used to calculate trends in fishing effort for each GSA and stratum are marked with (*). References are listed below the table.

GSA	Species	Effort measure	Years	Reference
GSA 1	<i>M. barbatus</i>	Number of vessels	2005-2007	SAC GFCM 2008a
	<i>M. barbatus</i>	kW*days at sea (*), GT*days at sea	2009-2013	STECF 2015a
GSA 5	<i>P. longirostris</i>	kW*days at sea (*)	2003-2015	STECF 2016b
	<i>A. antennatus</i>	Number of vessels (*)	2011	SAC GFCM 2012a
	<i>A. antennatus</i>	Number of vessels (*)	1998-2009	SAC GFCM 2010a
	<i>A. antennatus</i>	Number of vessels (*)	1999-2010	SAC GFCM 2011a
	<i>M. barbatus</i>	Number of vessels	2000-2009	SAC GFCM 2010b
	<i>M. barbatus</i>	kW*days at sea, GT*days at sea	2009-2012	STECF 2013b
	<i>M. surmuletus</i>	Number of vessels	2000-2009	SAC GFCM 2010c
	<i>M. surmuletus</i>	Number of vessels (*)	2000-2010	SAC GFCM 2011b
	<i>N. norvegicus</i>	Number of vessels (*)	2002-2009	SAC GFCM 2010d
	<i>N. norvegicus</i>	kW*days at sea, GT*days at sea	2009-2013	STECF 2015a
GSA 6	<i>P. longirostris</i>	kW*days at sea, GT*days at sea	2009-2012	STECF 2013a
	<i>A. antennatus</i>	Number of vessels	1996-2006	SAC GFCM 2007
	<i>A. antennatus</i>	kW*days at sea, GT*days at sea	2009-2014	STECF 2015b
	<i>M. barbatus</i>	Number of vessels (*)	1999-2010	SAC GFCM 2011c
	<i>M. barbatus</i>	Number of vessels, kW*days at sea, GT*days at sea	2009-2012	STECF 2013b
	<i>M. surmuletus</i>	Number of vessels (*)	1998-2009	SAC GFCM 2010e
	<i>N. norvegicus</i>	Number of vessels (*), kW*days at sea, GT*days at sea	2004-2015	STECF 2016b
	<i>P. longirostris</i>	Number of vessels	2001-2010	SAC GFCM 2011d
	<i>P. longirostris</i>	Number of vessels	2001-2011	SAC GFCM 2012b
	<i>P. longirostris</i>	Number of vessels	2001-2012	SAC GFCM 2013
GSA 7	<i>P. longirostris</i>	Number of vessels, kW*days at sea, GT*days at sea	2009-2012	STECF 2013a
	<i>M. barbatus</i>	Number of vessels	2002-2013	STECF 2014a
	<i>M. barbatus</i>	Days at sea, kW*days at sea, GT*days at sea	2004-2006	STECF 2008a
	<i>M. barbatus</i>	Number of vessels	2004-2008	SAC GFCM 2009a
	<i>M. barbatus</i>	Number of vessels	2004-2009	SAC GFCM 2010f
	<i>M. barbatus</i>	Number of vessels (*)	2004-2011	SAC GFCM 2012c
GSA 9	<i>M. surmuletus</i>	Number of vessels	2004-2010	SAC GFCM 2011e
	<i>A. foliacea</i>	kW*days at sea	2004-2012	STECF 2013a
	<i>A. foliacea</i>	kW*days at sea (*)	2004-2014	STECF 2015b
	<i>N. norvegicus</i>	kW*days at sea	2004-2013	STECF 2014a
	<i>N. norvegicus</i>	Number of vessels, kW*days at sea, GT*days at sea	2004-2015	STECF 2016b
	<i>P. longirostris</i>	kW*days at sea (*)	2002-2015	STECF 2016b
	<i>P. longirostris</i>	kW*days at sea	2004-2013	STECF 2015a
GSA 10	<i>P. longirostris</i>	Number of vessels	2006-2008	SAC GFCM 2009b
	<i>A. foliacea</i>	kW*days at sea	2004-2014	STECF 2015b
	<i>P. longirostris</i>	kW*days at sea (*)	2002-2015	STECF 2016b
GSA 11	<i>P. longirostris</i>	kW*days at sea	2004-2012	STECF 2013a
	<i>A. foliacea</i>	Number of vessels, kW*days at sea (*), GT*days at sea	2004-2014	STECF 2015b
	<i>M. surmuletus</i>	GT*days at sea (*)	2004-2012	STECF 2013b
GSA 15-16	<i>N. norvegicus</i>	Number of vessels, kW*days at sea, GT*days at sea	2004-2015	STECF 2016b
	<i>P. longirostris</i>	kW*days at sea (*)	2002-2015	STECF 2016b
	<i>A. foliacea</i>	GT*days at sea	2004-2008	SAC GFCM 2009c
GSA 16	<i>P. longirostris</i>	Number of vessels	2006-2007	SAC GFCM 2008b
GSA 17	<i>M. barbatus</i>	kW*days at sea (*), GT*days at sea	2004-2012	STECF 2013b
	<i>N. norvegicus</i>	kW*days at sea (*)	2002-2015	STECF 2016b
GSA 17-18	<i>M. barbatus</i>	kW*days at sea, GT*days at sea	2004-2014	STECF 2016a
	<i>N. norvegicus</i>	kW*days at sea, GT*days at sea	2006-2014	STECF 2016a
GSA 18	<i>A. foliacea</i>	kW*days at sea (*), GT*days at sea	2002-2014	STECF 2016a
	<i>M. barbatus</i>	kW*days at sea (*)	2004-2013	STECF 2015a
	<i>P. longirostris</i>	kW*days at sea, GT*days at sea (*)	2007-2014	STECF 2016a
GSA 22-23	<i>P. longirostris</i>	Days at sea, kW*days at sea, GT*days at sea	2003-2006	STECF 2008a

SAC GFCM. 2007. Scientific Advisory Committee on Fisheries of the General Fisheries Commission of the Mediterranean (SAC GFCM) - Stock assessment forms of the Sub-Committee on Stock Assessment - *Aristeus antennatus* - GSA 6. FAO.

SAC GFCM. 2008a. Scientific Advisory Committee on Fisheries of the General Fisheries Commission of the Mediterranean (SAC GFCM) - Stock assessment forms of the Sub-Committee on Stock Assessment - *Mullus barbatus* - GSA 1. FAO.

SAC GFCM. 2008b. Scientific Advisory Committee on Fisheries of the General Fisheries Commission of the Mediterranean (SAC GFCM) - Stock assessment forms of the Sub-Committee on Stock Assessment - *Parapenaeus longirostris* - GSA 16. FAO.

SAC GFCM. 2009a. Scientific Advisory Committee on Fisheries of the General Fisheries Commission of the Mediterranean (SAC GFCM) - Stock assessment forms of the Sub-Committee on Stock Assessment - *Mullus barbatus* - GSA 7. FAO.

SAC GFCM. 2009b. Scientific Advisory Committee on Fisheries of the General Fisheries Commission of the Mediterranean (SAC GFCM) - Stock assessment forms of the Sub-Committee on Stock Assessment - *Parapenaeus longirostris* - GSA 9. FAO.

SAC GFCM. 2009c. Scientific Advisory Committee on Fisheries of the General Fisheries Commission of the Mediterranean (SAC GFCM) - Stock assessment forms of the Sub-Committee on Stock Assessment - *Aristeus antennatus* - GSAs 15 & 16. FAO.

SAC GFCM. 2010a. Scientific Advisory Committee on Fisheries of the General Fisheries Commission of the Mediterranean (SAC GFCM) - Stock assessment forms of the Sub-Committee on Stock Assessment - *Aristeus antennatus* - GSA 5. FAO.

SAC GFCM. 2010b. Scientific Advisory Committee on Fisheries of the General Fisheries Commission of the Mediterranean (SAC GFCM) - Stock assessment forms of the Sub-Committee on Stock Assessment - *Mullus barbatus* - GSA 5. FAO.

SAC GFCM. 2010c. Scientific Advisory Committee on Fisheries of the General Fisheries Commission of the Mediterranean (SAC GFCM) - Stock assessment forms of the Sub-Committee on Stock Assessment - *Mullus surmuletus* - GSA 5. FAO.

SAC GFCM. 2010d. Scientific Advisory Committee on Fisheries of the General Fisheries Commission of the Mediterranean (SAC GFCM) -

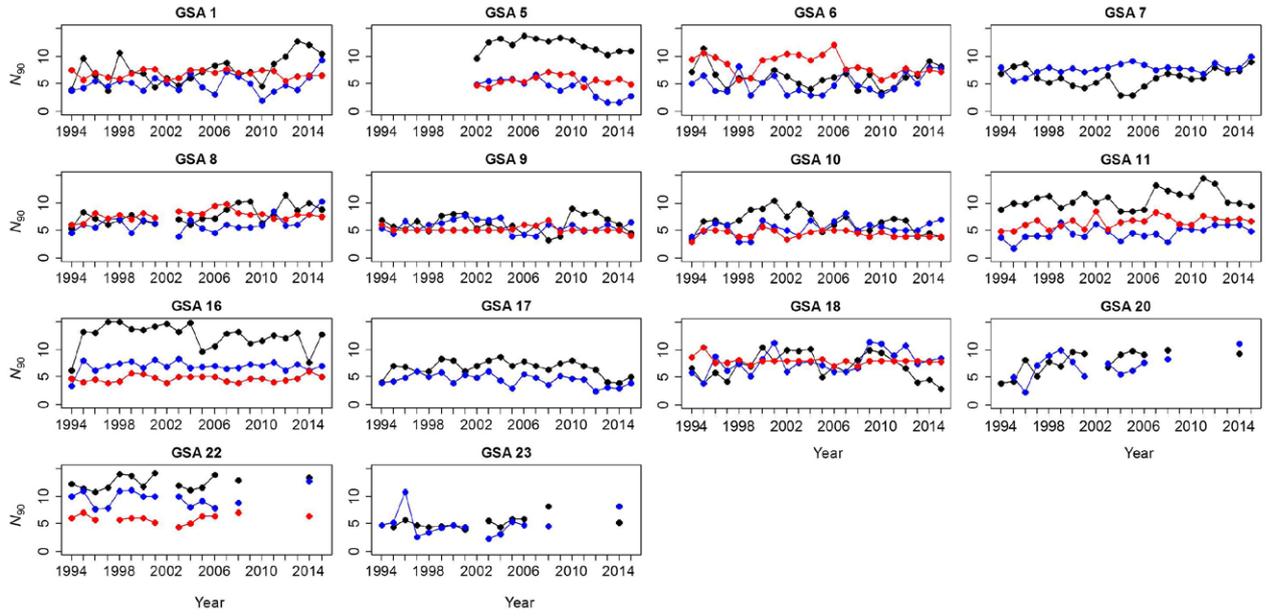


Fig. S2. – Mean values of N_{90} diversity index during the period 1994–2015 for each GSA and depth strata. Black dots, shelf; blue dots, shelf break/upper slope; red dots, lower slope.

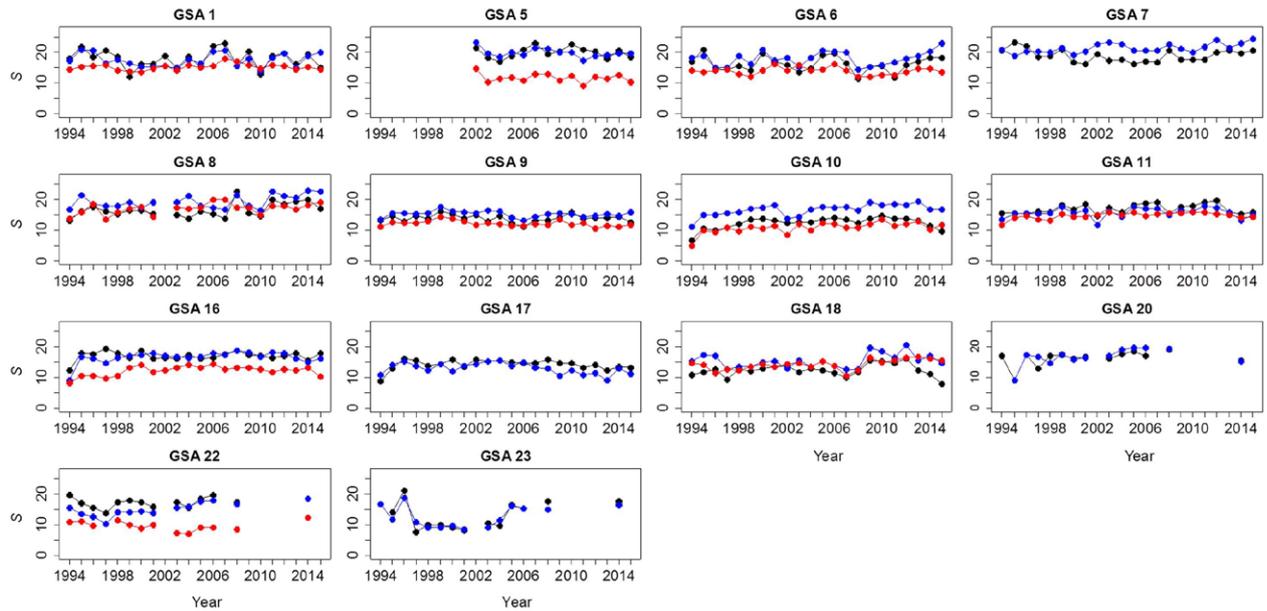


Fig. S3. – Mean values of species richness (S) during the period 1994–2015 for each GSA and depth strata. Black dots, shelf; blue dots, shelf break/upper slope; red dots, lower slope.

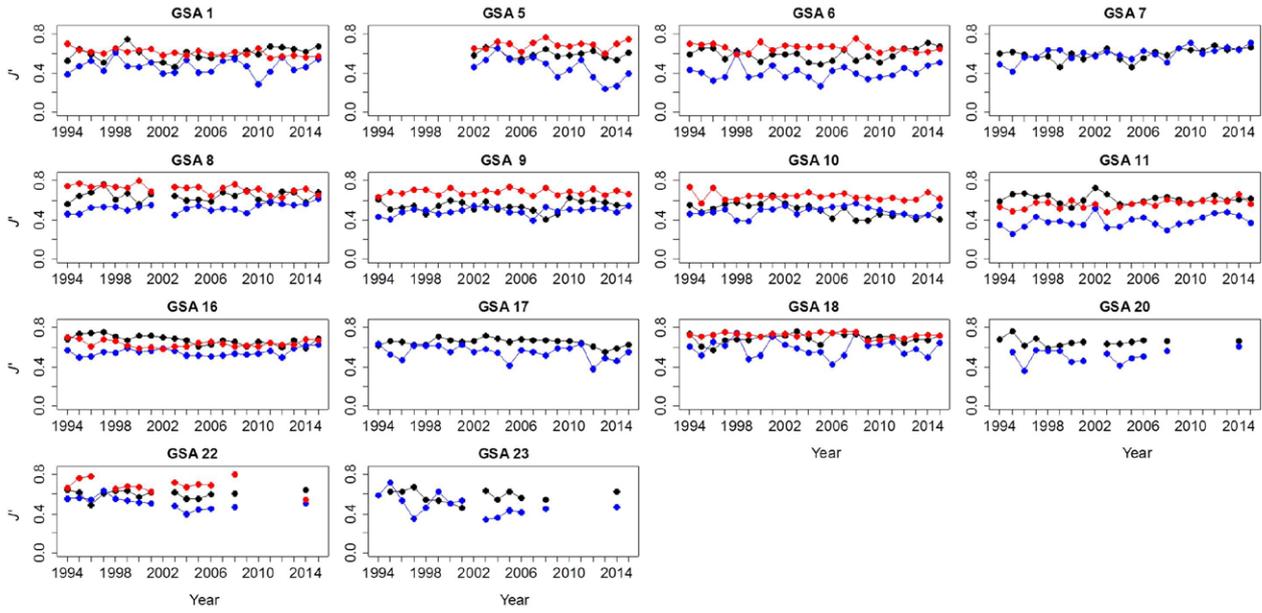


Fig. S4. – Mean values of Pielou evenness (J') during the period 1994–2015 for each GSA and depth strata. Black dots, shelf; blue dots, shelf break/upper slope; red dots, lower slope