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Life cycle traits and stock assessment of Pegusa impar (Bennett, 1831) in the shallow coastal waters of Southwest Sicily

CANNIZZARO, Leonardo; VITALE, Sergio 🗙. **Acta Adriatica** 55.1 (2014): 85-100.

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⊟ Abstract (summary) Translate

From spring 2002 to winter 2011 a catch-effort survey was conducted in the wide Gulf between Cape San Marco and Cape Granitola (southwest coast of Sicily). The target fleet was the small scale fishery, using trammel net and gill net, based in the port of Marinella di Selinunte located in the centre of the Gulf. From 2005 to 2008 seasonal statistically significant samples of the catch of Pegusa impar (BENNETT, 1831) Adriatic sole were purchased to study the life history. Length at first sexual maturity was 155.82 mm and 156.22 mm for females and males respectively. Age at first sexual maturity was 1.99 years for females and 2.57 years for males. The spawning period lasts throughout spring and summer with a migration from greater depths into shallow waters. Although the present data do not indicate that the resource is currently in overexploitation, it is however necessary not to increase fishing effort.Original Abstract: Od proljeca 2002. do zime 2011. godine provedeno je istrazivanje o koristenom ribolovnom naporu u sirokom zaljevu izmedu rta San Marco i rta Granitola (jugozapadna obala Sicilije). Istrazivana flota pripada priobalnom ribarstvu, u kojem su se koristile mreze plivarice i poponice, te ima sjediste u luci Marinella di Selinunte i nalazi se u sredini zaljeva. Od 2005. do 2008.g. za istrazivanje zivotnog ciklusa koristeni su podaci sezonskih statisticki znacajnih uzoraka lista jadranskog Pegusa impar (BENNETT, 1831). Parametri rasta prema Von Bertanlafiy-jevom modelu iznosili su: L sub([infinity]) = 249 mm, k = 0.25 godina super(-1), t sub(0) = - 2.0 godina za zenke; te L sub([infinity]) = 250 mm, k = 0.26 godina super(-1), t sub(0) = - 1.8 godina za muzjake. Najveca procijenjena dob po ocitanom otolitu je 6 + godina. Parameteri a i b duzinsko-masenog odnosa iznosili su a = 0.000007 and b = 3.0562 za zenke, te a = 0.000008 i b = 3.0157 za muzjake. Duljina pri prvom spolnom sazrijevanju iznosila je 155.82 mm kod zeniki i 156.22 mm kod muzjaka. Dob prve spolne zrelosti bila je 1.99 god. za zenke i 2.57 godina za muzjake. Mrijescenje traje tijekom proljeca i ljeta s migracijama iz vecih dubina u plitke vode. Do 2007. godine duljina vecine ulovljenih primjeraka je iznosila 160 mm, dok je u 2008. godini iznosila 150 mm. Godisnji ulov kolebao je izmedu 842 kg (9743 primjerka) i 2703 kg (65345 primjeraka). Duzina polozenih mreza u godisnjem ribolovnom napom kolebala je od 3142 km do 6017 km. Procjena stoka je izradena prema Schaeferovom modelu koristeci pri tom FMSP-CEDA softver. Najvisi odrzivi prinos, nosivost, koeficijent lovnosti, intrinzicna stopa rasta populacije i zamjenski prinos su iznosili redom 2140 kg, 7132 kg, 0,000055 kg, 1.200 kg i 1869 kg. Predvideni trend biomase do 2020. godine pokazuje da ako se nakon 2011.g. ribolovni napor bude povecavao za 10%, iz godine u godinu, resurs ce poceti opadati pocevsi od 2013. godine. Mada sadasnji podaci ne ukazuju da je resurs trenutno prekomjemo eksploatiran, ribolovni napor se ne bi smio povecavati.

⊟ Indexing (details) ☰ Cite

Subject	
	Age;
	Data processing;
	Stock assessment;
	Statistical analysis;
	Life cycle;
	Spawning;
	Coastal waters;
	Migration;
	Fishing;
	Life history;
	Sexual maturity;
	Fisheries;
	Gills;
	Coasts;
	Pegusa

TI	Title	Life cycle traits and stock assessment of Pegusa impar (Bennett, 1831) in the shallow coastal waters of Southwest Sicily
OTI	Alternate title	Znacajke zivotnog ciklusa i procjena stoka lista jadranskoga, Pegusa impar (Bennett, 1831) u plitkim priobalnim vodama jugozapadne Sicilije
AU,AUFN,AULN	Author	CANNIZZARO, Leonardo [1] ; VITALE, Sergio
AF		[1] National Research Council - Institute for Coastal Marine Environment, Capo Granitola Branch, Campobello di Mazara TP, Italy, leonardo.cannizzaro@cnr.it
LA	Language	English
DTYPE	Document type	Journal Article
PUB	Publication title	Acta Adriatica
SRC	Source details	Acta Adriatica. Vol. 55, no. 1, pp. 85-100. 2014.
VO	Volume	55
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Author[2] Author First Name Author Last name	AU AUFN AULN	au("vitale, sergio") aufn(Sergio) auln(vitale)	Includes all authors. See also First author.
First author	FAU	fau(cannizzaro leonardo)	First name listed in Author field. It is included in Author browse, but its position cannot be specified in the Author browse. See also Author.
Author affiliation	AF	af("institute for coastal marine environment" PRE/3 "campobello di mazara")	
Cited author	CAU	cau(thomas harris)	Authors of cited works.
Cited document title	CTI	cti(sediment N/5 cuyahoga)	
Cited publication date	CYR	cyr(2009)	
Cited publication title	CPUB	cpub("biotechnology for biofuels")	
Classification code[2]	CC	cc("q2 02406") cc("energy from the sea")	Not currently displayed
Conference information	CF	cf("biochemical society ") cf(glasgow) cf(2008)	Includes conference title, location, number, date.
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Date completed	DCOM	dcom(<20130726)	
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DOI	DOI	doi("10.1007/s00227-010-1420-x")	Digital Object Identifier
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Field Name[1]	Field Code	Example	Description and Notes
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Title only	TIO	tio(wylfa N/5 nuclear)	Searches only the Title, not alternate title or subtitle.
Alternate title	OTI	oti(Znacajke zivotnog ciklusa i procjena stoka)	Usually the original, non-English title
Document type	DTYPE	dtype("journal article")	
First available	FAV	fav(20141002) fav(20120101-20120630)	Indicates the first time a document was loaded in a specific database on PQD. It will not change however many times the record is subsequently reloaded, as long as the accession number does not change.
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Identifier (keyword)	IF	if(irrigation or drainage)	
ISBN	ISBN	isbn(9781267951021)	
ISSN	ISSN	issn(0001-5113) issn(00015113)	Also retrieves electronic ISSNs.
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Location	LOC	loc(Virginia)	
MeSH	MESH, SU	mesh("acute disease")	Available only in nthe TOXLINE subfile
Notes	NT	nt(reprint*)	
Number of pages	PCT	pct(16)	
Pagination	PG	pg(85-100)	See also Start page.
Patent assignee	AP	ap("the university of north Carolina")	Displays in Patent information
Publication date	PD	pd(2014) pd(>20120630) pd(20120701-20120831)	Also searchable via the Look Up Citation tool.
Publication title[2]	PUB	pub("Acta adriatica") pub("journal of irrigation")	Title of publication where document originally appeared. Also searchable via the Look Up Citation tool.
Publication type	PT, STYPE	pt("scholarly journals")	

Field Name[1]	Field Code	Example	Description and Notes
Publication year	YR, PY	yr(2014) yr(>2011) yr(2013-2014)	Single year or a range of years may be searched. Displays in Publication date.
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Publisher location	PBLOC	pbloc(croatia)	
References	RF	rf("Optical oceanography" AND dickey)	
Source type	PT,STY PE	pt("conference papers & proceedings")	Searches references cited in the original document.
Start page	PAGE	page(85)	Also searchable on the Look Up Citation page. Displays in Pagination.
Subfile	SFL	sfl(asfa)	The individual database(s) in which the record appears. Also searchable using two-letter codes.
Subject[2]	SU	su("stock assessment")	
Substance	SUBST	subst(toluene)	Available only in the TOXLINE subfile; terms display in both Substance and generic name fields.
Updates	UD	ud(>20121231) ud(20130101-20130630)	The date(s) the record was loaded as a result of an update provided by the supplier.
Volume	VO	vo(55)	

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