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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 sirokome 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 koristen su podaci sezonskih statisticki znacajnih uzoraka lista jadranskog Pegusa impar (BENNETT, 1831). Parametri rasta prema Von Bertalanfy-jevom modelu iznosili su: $L_{sub(\infty)} = 249$ mm, $k = 0.25$ godina super(-1), $t_{sub(0)} = -2.0$ godina za zenke; te $L_{sub(\infty)} = 250$ mm, $k = 0.26$ godina super(-1), $t_{sub(0)} = -1.8$ godina za muzjake. Najveca procijenjena dob po ocitanom otolitu je 6 + godina. Parametri 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 vechi 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 koristeći pri tom FMSP-CEDA softver. Najvisi održivi prinos, nosivost, koeficijent lovnosti, intrinzična 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 povećavao za 10%, iz godine u godinu, resurs će početi opadati počevši od 2013. godine. Mada sadašnji podaci ne ukazuju da je resurs trenutno prekomjerno eksploatiran, ribolovni napor se ne bi smio povećavati.

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
AU,
AUFN,AULN

AB

SU

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
ISS	Issue	1
PG	Pagination	85-100
PCT	Page count	16
ISSN	ISSN	0001-5113
PB,PBLOC	Publisher	Institut za Oceanografiju i Ribarstvo, Mose Pijade 63, Box 114 Split 58001 Croatia
SFL	Subfile	Oceanic Abstracts; ASFA Marine Biotechnology Abstracts
PD,YR	Publication date	2014
DREV	Date revised	2014-09-01
AN	Accession number	20744116
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FAV	First available	2014-10-02
UD	Updates	2014-10-02 2014-10-15
	Database	3 databases View list ▼

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Field Name ¹	Field Code	Example	Description and Notes
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Abstract present	ABANY	"Ecosystem-Based Management" AND abany(yes)	Add: <i>AND ABANY(YES)</i> to a query to limit retrieval to records with abstracts.
Accession number	AN	an(20744116)	A unique document identification number assigned by the information provider. A record can display multiple accession numbers – depending on the products within which it is stored.
All fields	ALL	all("life cycle traits")	Searches all fields in bibliographic files. Use adjacency and/or Boolean operators to narrow search results.
All fields + text	--	"life cycle traits"	Same as ALL field code: searches all fields in bibliographic files.
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.

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Field Name ¹	Field Code	Example	Description and Notes
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.
Corporate author	CA	ca(hoechst OR schering)	
Date completed	DCOM	dcom(<20130726)	
Date created	DCRE	dcre(20130101-20130331)	Date the Information Provider created the record. Note that not all Providers identify a date of creation.
Date revised	DREV	drev(2014-09-01) drev(>20121231)	Date that the Information provider revised the record. Note that not all Providers identify a date of revision.
DOI	DOI	doi("10.1007/s00227-010-1420-x")	Digital Object Identifier
Document feature	DF	df(table)	Indicates presence in original article of availability of graphics, tabular data, illustrations, etc.
Document title	TI	ti(Life cycle traits and stock assessment of Pegusa impar)	Includes Alternate (OTI), but not Publication title (PUB).
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.
From database ²	FDB	ti(earthquake*) AND fdb(envscienceprof)	Useful in multi-file searches to isolate records from a single file. FDB cannot be

² Click the "Field codes" hyperlink at the top right of the Advanced Search page. Click "Search syntax and field codes", then click on "FDB command" to get a list of database names and codes that can be searched with FDB.

Field Name ¹	Field Code	Example	Description and Notes
		ti(earthquake*) AND fdb(10000200)	searched on its own; specify at least one search term then AND it with FDB.
Identifier (keyword)	IF	if(irrigation or drainage)	
ISBN	ISBN	isbn(9781267951021)	
ISSN	ISSN	issn(0001-5113) issn(00015113)	Also retrieves electronic ISSNs.
Issue	ISS	iss(1)	Also searchable via the Look Up Citation tool.
Journal title	JN	jn("acta adriatica")	Journal names only. For complete Publication name types, use PUB. Displays in Publication title. Also searchable via the Look Up Citation tool for Publication name.
Language	LA	la(english)	The language in which the document was originally published.
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, PAT	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")	
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.
Publisher	PB	pb("Institut za Oceanografiju i Ribarstvo")	
Publisher location	PBLOC	pbloc(croatia)	
References	RF	rf("Optical oceanography" AND dickey)	
Source type	PT, STYPE	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.

Field Name ¹	Field Code	Example	Description and Notes
			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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Field codes are used to search document fields, as shown in the sample document. Field codes may be used in searches entered on the **Basic Search**, **Advanced Search**, and **Command Line** search pages. **Limit options**, **Look up lists**, and **"Narrow results by" filters** tools are available for searching. Some data can be searched using more than one tool.

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Peer reviewed

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Preview	Title, Author, Publication title, Publisher, Volume, Issue, Pagination, Publication date, Abstract, Subject.	✓	
Brief citation	Bibliographic record minus Abstract and Indexing	✓	✓
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