

# ASFA (Aquatic Sciences and Fisheries Abstracts)

## FILE DESCRIPTION

Overwhelmingly cited by a majority of aquatic science librarians as their primary database, the **ASFA (Aquatic Sciences and Fisheries Abstracts)** series is the premier reference in the field of aquatic resources. Input to ASFA is provided by a growing international network of information centers monitoring more than 5,000 serial publications, books, reports, conference proceedings, translations, and limited distribution literature. ASFA is a component of the Aquatic Sciences and Fisheries Information System (ASFIS), formed by four United Nations agency sponsors of ASFA and a network of international and national partners.

## SUBJECT COVERAGE

ASFA includes the following major areas of subject coverage:

- Aquaculture
- Aquatic organisms
- Aquatic pollution
- Brackish water environments
- Conservation
- Environmental quality
- Fisheries
- Fresh water environments
- Limnology
- Marine biotechnology
- Marine environments
- Meteorology
- Oceanography
- Policy and legislation
- Wildlife management

## TIPS

### USE FILE 44

to find information on marine, brackishwater, and freshwater environments and resources.

### USE SH= or /SH

to find broad subject areas:

SELECT SH=ATMOSPHERIC CHEMISTRY  
SELECT AQUARIA/SH

### USE RANK

to find experts on marine topics:

SELECT FISH(W)FARM?/TI; RANK AU

## DIALOG FILE DATA

Inclusive Dates: 1971 to the present

Update Frequency:

Monthly (Approx. 3,700 records per update)

File Size:

More than 1,004,328 records as of August 2005

## CONTACT

Aquatic Sciences and Fisheries Abstracts is produced by CSA under contract to FAO. Questions concerning this file should be directed to:

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## SAMPLE RECORD

DIALOG(R)File 44:Aquatic Science & Fisheries Abstaracts  
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AA= 0001014296 IP ACCESSION NO: 6395892  
 /TI Herding limits water loss in the sand fiddler crab, *Uca pugilator*  
 AU= Yoder, JA; Reinsel, KA; Welch, JM; Clifford, DM; Rellinger, EJ  
 CS= Department of Biology, Wittenberg University, Springfield, Ohio 45501 USA,  
 [mailto:jyoder@wittenburg.edu]  
 JN=,SO=,PD= Journal of crustacean biology, v 25, n 1, p 141-145, 2005  
 PY= PUBLICATION DATE: 2005  
 DT= DOCUMENT TYPE: Journal Article  
 RT= RECORD TYPE: Abstract  
 LA= LANGUAGE: English  
 SL= SUMMARY LANGUAGE: English  
 SN= ISSN: 0278-0372  
 NO= ASFA NO: MB0500965  
 NOTES: Physical medium: Printed matter; Marine  
 FS= FILE SEGMENT: ASFA 1: Biological Sciences & Living Resources  
 /AB ABSTRACT:  
 Adult sand fiddler crabs, *Uca pugilator*, forge in large herds on exposed sediment during low tide. These herds form as a response to optimal forging conditions but may have an additional benefit of water conservation. We determined water loss rates for crabs in groups of different sizes. Crabs in groups of 10 and 20, but not in a group of 5 or isolated individuals, showed a water-conserving group effect, yielding nearly a two-fold decrease in water loss rates. Other characteristics of *U. pugilator* (water content, dehydration tolerance, activation energies for water loss, critical transition temperature, and critical equilibrium humidity) are consistent with a hydrophilic water balance profile. Because crabs did not replenish water supplies from water vapour like some terrestrial arthropods, water conservation is vital to crab survival outside burrows. Enhanced water retention generated by herding likely permits more time for feeding outside the burrow, while also increasing feeding efficiency by minimizing frequency of water uptake. The fact that *U. pugilator* is semiterrestrial suggests that a reduction in water loss due to group effects may provide a mechanism for terrestrialization.

/DE DESCRIPTORS: Schooling behaviour; Evaporation; Desiccation; Water vapour  
 ; *Uca pugilator*  
 /ID IDENTIFIERS: Atlantic sand fiddler  
 SC=,SH,SH= SUBJ CATG: 01286, Physiology, biochemistry, biophysics

## SEARCH OPTIONS

## BASIC INDEX

SEARCH SUFFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	—	All Basic Index Fields	Word	S AQUACULTURE
/AB	AB	Abstract	Word	S FIDDLER(W)CRAB?/AB
/DE	DE	Descriptor <sup>1</sup>	Word & Phrase	S SCHOOLING(W)BEHAVIOUR/DE S WATER VAPOUR/DE
/ID	ID	Identifier <sup>2</sup>	Word & Phrase	S FIDDLER/ID S ATLANTIC SAND FIDDLER/ID
/SH	SH	Section Category <sup>3</sup>	Word	S PHYSIOLOGY/SH
/TI	TI	Title	Word	S UCA(W)PUGLIATOR/TI

<sup>1</sup> Also /DF.<sup>3</sup> Searchable in the Basic Index and in the Additional Indexes.<sup>2</sup> Also /IF.

## ADDITIONAL INDEXES

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
AA=	AA	ASFA Accession Number	Phrase	S AA=6395892
AU=	AU	Author	Phrase	S AU=YODER, J?
—	AZ	DIALOG Accession Number		
BN=	BN	International Standard Book Number (ISBN)	Phrase	S BN=0-306-31103 S BN=030631103
CS=	CS	Corporate Source	Word & Phrase	S CS=(DEPARTMENT(1W)BIOLOGY) S CS=DEPARTMENT OF BIOLOGY?
CT=	CT	Conference Title	Word	S CT=(GLOBAL(W)CLIMATE)
DT=	DT	Document Type	Phrase	S DT=JOURNAL ARTICLE
FS=	FS	File Segment	Phrase	S FS="ASFA 1: BIOLOGICAL SCIENCES"?
JN=	JN	Journal Name	Phrase	S JN=JOURNAL OF CRUSTACEAN?
LA=	LA	Language	Phrase	S LA=ENGLISH
NO=	NO	Document Number	Phrase	S NO=A-UR-81-3017
PD=	PD	Publication Date	Phrase	S PD=20041027
PU=	PU	Publisher	Word	S PU=(ELSEVIER(W)SCIENCE)
PY=	PY	Publication Year	Phrase	S PY=2005
RT=	RT	Record Type	Phrase	S RT=ABSTRACT
SC=	SC	Section Category Code	Phrase	S SC=01286
SH=	SH	Section Category	Phrase	S SH=PHYSIOLOGY, BIOCHEM?
SL=	SL	Summary Language	Phrase	S SL=ENGLISH
SN=	SN	International Standard Serial Number (ISSN)	Phrase	S SN=0278-0372 S SN=02780372
SO=	SO	Source Information	Word	S SO=(CRUSTACEAN? AND 2005)
UD=	—	Update	Phrase	S UD=9999

**SPECIAL FEATURES**

For command descriptions, enter HELP LIMIT, HELP SORT, HELP RANK, HELP DUP online.

<b>LIMIT</b>	/ABS -- Abstract Present /NOABS -- Record is a Citation Only Record /YYYY -- Publication Year	S S3/ABS S S4/NOABS S S2/2005
<b>SORT</b>	<b>AU, CS, JN, PY, TI</b>	SORT S5/ALL/PY,D SORT S1/ALL/PY/D
<b>RANK</b>	All phrase- and numeric-indexed fields in the Additional Indexes can be ranked.	RANK DE RANK CS S4
<b>RD, ID</b>	Remove duplicates (RD) or identify duplicates (ID,IDO).	RD S5

**PREDEFINED FORMAT OPTIONS**

NO.	DIALOGWEB FORMAT	RECORD CONTENT
1	--	DIALOG Accession Number
2	--	Bibliographic Citation and Indexing
3	Medium	Bibliographic Citation
4	--	Full Record with Tagged Fields
5	--	Full Record
6	Short	Title and Publication Year
7	Long	Bibliographic Citation and Abstract
8	Free	Title, Indexing, and Publication Year
9	Full	Full Record
K	--	KWIC (Key Word In Context) displays a window of text; may be used alone or with other formats

**OTHER OUTPUT OPTIONS**

For an explanation, enter HELP TYPE, HELP UDF, HELP TAG online.

<b>USER DEFINED FORMATS</b>	Display codes listed in the Search Options tables can be used to customize output.	TYPE S3/AU,TI,SO/1-5 PRINT S1/AU,TI,AB/ALL
<b>TAG</b>	Output can be displayed with tags identifying each display field.	TYPE S3/5/1-5 TAG PRINT S1/9/ALL TAG DISPLAY S2/2/ALL TAG
<b>DIRECT RECORD ACCESS</b>	If the accession number of a specific record is known, it can be used to display the record directly.	TYPE 0358014/8 DISPLAY 0309961/AU,TI PRINT 0351884/5

**FOR ONLINE HELP:**

See HELP FIELDS 44 for searchable fields; HELP FORMAT 44 for output formats; HELP LIMIT 44 for limits; HELP RATES 44 for cost information; HELP SORT 44 for sorts.