

# Assessment of Northwest Pacific Ocean shortfin mako (*Isurus oxyrinchus*)

Assessment ID:IMARM-SFMAKONWPAC-1990-2003-FAUCONNET  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/400>

Area ID: multinational-UNKNOWN-NWPAC

General assessment details.

Detail	Value
Management body	UNKNOWN
Assessment group	Institute of Marine Affairs and Resource Management - National Taiwan Ocean University, 2 Pei-Ning Road, Keelung 20224, Taiwan
Assessment authors	Chang, Jui-Han
Assessment method	Virtual Population Analysis
Publication year	2009
Timeseries span	1990-2003
Document	Chang-Liu-2009-Shortfin-mako-NWPAC.pdf (pdf in database)
Recorder	FAUCONNET
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Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

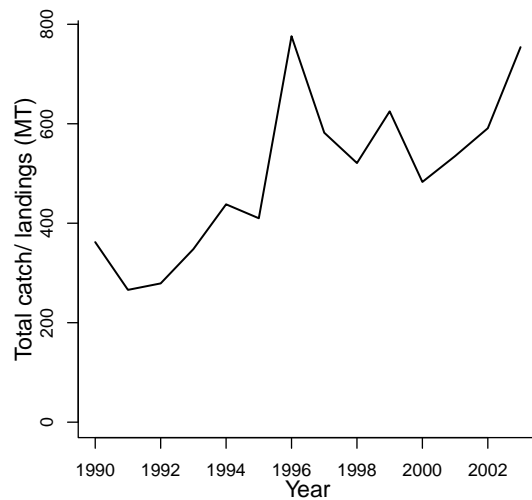
primary LME			secondary LME			tertiary LME		
-99 - Pacific High Seas			-98 - Atlantic High Seas			-97 - Indian High Seas		
Parameter	Value	Units						
SSB-AGE-yr	17-21	yr						
F-AGE-yr-yr	0-22	yr-yr						
F-AGE-yr-yr	0-18	yr-yr						
REC-AGE								
SSB-SEX-sex								
TB-AGE-yr								
M								
A50-yr								
L50-cm								

Reference points		
Parameter	Value	Units
F30%-1/yr	0.052	1/yr
F35%-1/yr	0.045	1/yr
F40%-1/yr	0.04	1/yr
F0.1-1/yr (F)	0.063	1/yr

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year					1990
Maximum year					2003
Time series minimum					266
Time series maximum					776
Units					MT

No biomass data  
available

No recruitment  
data available



No SSB–recruit  
data available