

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)
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Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

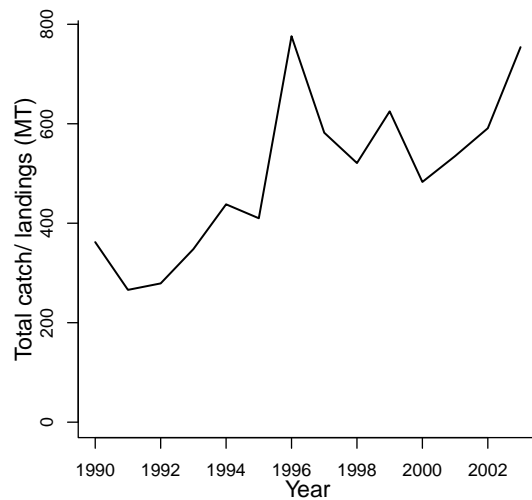
primary LME		secondary LME		tertiary LME		
-99 - Pacific High Seas		-98 - Atlantic High Seas		-97 - Indian High Seas		
Parameter	Value	Units				
SSB-AGE-yr	17-21	yr				
F-AGE-yr-yr	0-22	yr-yr				
F-AGE-yr-yr	0-18	yr-yr				
REC-AGE						
SSB-SEX-sex						
TB-AGE-yr						
M						
A50-yr						
L50-cm						

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