Dear Michael,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 12 of your assessments, and now wish to quality assure/quality control (QA/QC) these data for a release version of the database. Please follow the steps below to ensure that your assessments have been dutifully represented:

QA/QC steps

For each assessment:

- 1. Ensure that the General assessment details are correct.
- 2. Ensure that the units for all Biometrics and Time Series shown are correct. To aid in this, we have included the minimum, maximum, first year, and last year of the spawning stock biomass, recruitment, fishing mortality, total biomass, and catch (where provided).
- 3. If there are blank values in the Biometrics table, please include these in your response (see below), where they are available. Please note that in the Biometrics table, the following abbreviations are used:
 - SSB-AGE-yr = Ages for which the spawning stock biomass is defined
 - REC-AGE = Age at recruitment
 - F-AGE-yr = Ages for which the fishing mortality is defined
 - TB-AGE-yr = Ages for which the total biomass is defined
 - M = Natural mortality
 - A50-yr = The age at 50% maturity
 - L50-cm = The length at 50% maturity
 - MORATOR-yr-yr = Moratorium years
 - LME = Large Marine Ecosystem
- 4. To ensure that the recruitment time series has been offset by the age at recruitment so that yearclass matches up with spawner biomass, please make sure that the difference between the last year of the recruitment and last year of the SSB time series is equal to the age at recruitment supplied (unless there is another reason, e.g. estimates unavailable).
- 5. Provide Large Marine Ecosystem (LME) designation(s) for your stock (unless it is a high seas stock). Please enter a primary, secondary and tertiary LME (if they exist) in the issue you submit (see below). A map of the LMEs is provided on the last page of this document.

QA/QC submission process

If you (or someone else) submitted the assessments via the RAM legacy site, please log into: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting and locate the issue(s) associated with your spreadsheet submission(s). Once you locate your assessment, open the associated issue and choose "Add response". At the top of this response write:

QAQC: Assessment ID (this ID is located at the top of each assessment in the current document)

If you did not submit via the RAM Legacy site, please go to the url above and click "Submit a new issue" with the title: *QAQC: Assessment ID* (located at the top of each assessment in this pdf).

If you found no issues with the QA/QC document, please type:

"QA/QC correct". If you have found issues, please update the assessment spreadsheet accordingly or write the details of corrections to be made in the dialogue box. Once we have received and processed your response, the assessment will be flagged as quality controlled and the data it contains will be used for analyses.

Contents

QA/QC steps	1
QA/QC submission process	1
AFSC-ALPLAICBSAI-1972-2008-MELNYCHUK	3
AFSC-DUSROCKGA-1973-2008-MELNYCHUK	5
AFSC-NROCKGA-1959-2008-MELNYCHUK	7
AFSC-PCODBSAI-1964-2008-MELNYCHUK	9
AFSC-PCODGA-1964-2008-MELNYCHUK	1
AFSC-POPERCHGA-1959-2008-MELNYCHUK	3
AFSC-REYEROCKGA-1974-2007-MELNYCHUK	5
AFSC-SABLEFEBSAIGA-1956-2008-MELNYCHUK 1	7
AFSC-WPOLLAI-1976-2008-MELNYCHUK	9
AFSC-WPOLLEBS-1963-2008-MELNYCHUK	1
AFSC-WPOLLGA-1964-2008-MELNYCHUK	3
AFSC-YSOLEBSAI-1959-2008-MELNYCHUK	5
LME map	7

Assessment of Bering Sea and Aleutian Islands alaska plaice (*Pleuronectes quadrituberculatus*) Assessment ID:AFSC-ALPLAICBSAI-1972-2008-MELNYCHUK

Assessment ID:AFSC-ALPLAICBSAI-1972-2008-MELNYCHUK Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/269

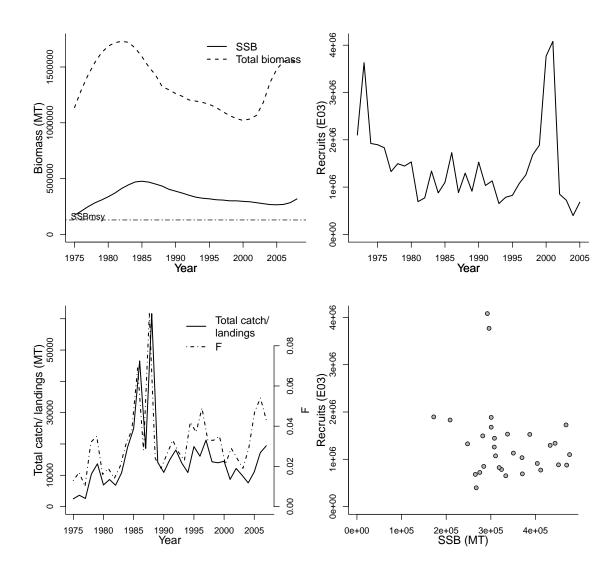
Area ID: USA-NMFS-BSAI

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Wilderbuer WT
Assessment method	an AD-Model builder statistical Catch at
	Age Model
Publication year	2008
Timeseries span	1972-2008
Document	AFSC-ALPLAICBSAI-2008-Alaska plaice
	BSAI.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-14
Date last loaded	2009-05-22
QA/QC complete	NO
Date approved	

p	rimary LME		secondary LME tertian	ry LME	
1	- East Berin	g Sea	na na		
Parameter	Value	Units		points	
REC-AGE-yı		yr	Parameter	Value	Units
F-AGE-yr-yr TB-AGE-yr M-1/yr NATMORT-1 SSB-AGE-yr M A50-yr L50-cm	3+ 0.25 1/yr 0.25	yr-yr yr 1/yr 1/yr	Fmsy-1/yr (F) NATMORT-1/yr (M) F40%-1/T SSBmsy-MT (SSB) SSBF40%-MT F_{2008}/F_{msy} SSB_{2008}/SSB_{msy}	0.86 0.25 0.62 129300 147850 0.050 2.461	1/yr 1/yr 1/T MT MT

Tim	Time series minima and maxima							
	SSB R F TB Catch							
Minimum year	1975	1972	1975	1975	1975			
Maximum year	2008	2005	2008	2008	2007			
Time series minimum	172125	397000	0.01	1021130	2492			
Time series maximum	476423	4080000	0.096	1729330	61638			
Units	MT	E03	1/yr	MT	MT			



Assessment of Gulf of Alaska dusky rockfish (Sebastes variabilis)

Assessment ID:AFSC-DUSROCKGA-1973-2008-MELNYCHUK Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/283

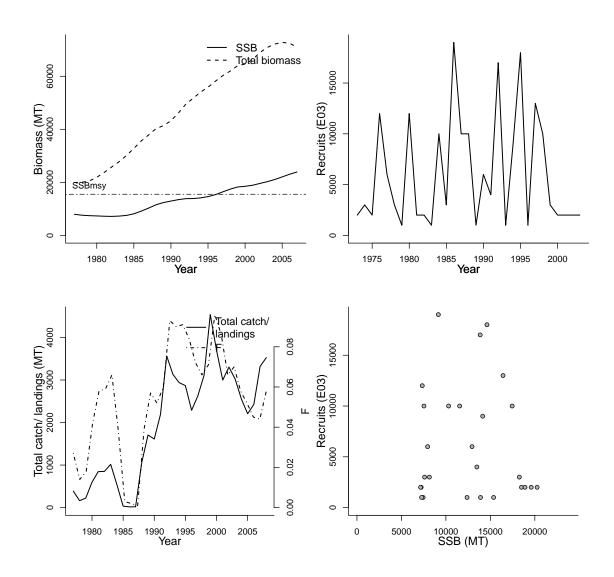
Area ID: USA-NMFS-GA

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Lunsford, C.R.
Assessment method	an AD-Model builder statistical Catch at
	Age Model
Publication year	2008
Timeseries span	1973-2008
Document	AFSC-DUSROCKGA-2008-Dusky rock-
	fish GA.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-21
Date last loaded	2009-05-22
QA/QC complete	NO
Date approved	

prima	ry LME	sec	condary LME tertiary	LME	
2 - Gı	ılf of Ala	ska na	na		
Parameter	Value	Units	Reference p	ooints	
SSB-AGE-yr	11.3	yr	Parameter	Value	Units
REC-AGE-yr TB-AGE-yr A50-yr L50-cm M-1/yr NATMORT-1/yr F-AGE-yr M	4 4+ 11.3 42.8 0.07 0.07	yr yr yr cm 1/yr 1/yr	Fmsy-1/yr (F) NATMORT-1/yr (M) F40%-1/T SSBmsy-MT (SSB) SSBF40%-MT F_{2007}/F_{msy} SSB_{2007}/SSB_{msy}	0.107 0.07 0.087 15511 17727 0.542 1.541	1/yr 1/yr 1/T MT MT

Time series minima and maxima									
	SSB R F TB Catch								
Minimum year	1977	1973	1977	1977	1977				
Maximum year	2007	2003	2007	2007	2008				
Time series minimum									
Time series maximum 23907 19000 0.096 72771 453									
Units	MT	E03	1/yr	MT	MT				



Assessment of Gulf of Alaska northern rockfish (Sebastes polyspinis)

(Sebastes polyspinis)
Assessment ID:AFSC-NROCKGA-1959-2008-MELNYCHUK
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/282

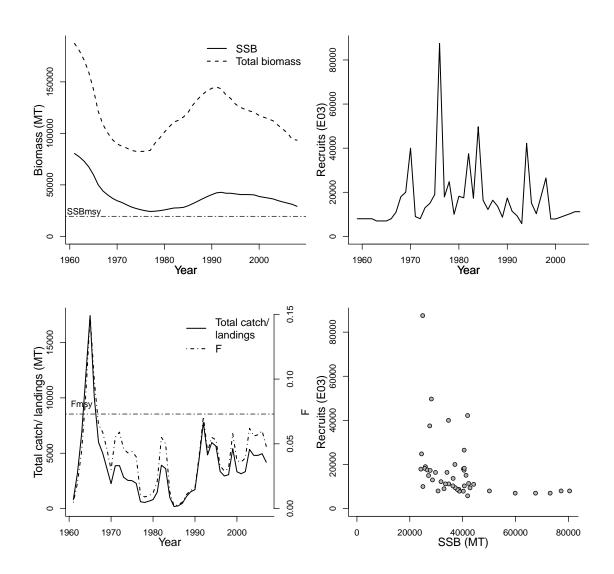
Area ID: USA-NMFS-GA

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Heifetz, J
Assessment method	an AD-Model builder statistical Catch at
	Age Model
Publication year	2008
Timeseries span	1959-2008
Document	AFSC-NROCKGA-2008-Northern rock-
	fish GA.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-17
Date last loaded	2009-05-22
QA/QC complete	NO
Date approved	

prima	ry LME	sec	ondary LME tertiary	LME	
2 - G	ulf of Ala	ska na	na		
Parameter	Value	Units	Reference p	ooints	
REC-AGE-yr	2	yr	Parameter	Value	Units
F-AGE-yr-yr TB-AGE-yr A50-yr L50-cm M-1/yr NATMORT-1/yr SSB-AGE-yr M	2-22+ 2+ 13 36.1 0.06 0.06	yr-yr yr yr cm 1/yr 1/yr	Fmsy-1/yr (F) NATMORT-1/yr (M) F40%-1/T SSBmsy-MT (SSB) SSBF40%-MT F_{2007}/F_{msy} SSB_{2008}/SSB_{msy}	0.073 0.06 0.061 19500 22300 0.658 1.496	1/yr 1/yr 1/T MT MT

Time series minima and maxima								
	SSB R F TB Catch							
Minimum year	1961	1959	1961	1961	1961			
Maximum year	2008	2005	2007	2008	2007			
Time series minimum								
Time series maximum 80449 87500 0.149 187340 17430								
Units	MT	E03	1/yr	MT	MT			



Assessment of Bering Sea and Aleutian Islands pacific cod (*Gadus macrocephalus*) Assessment ID:AFSC-PCODBSAI-1964-2008-MELNYCHUK

Assessment ID:AFSC-PCODBSAI-1964-2008-MELNYCHUK Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/268

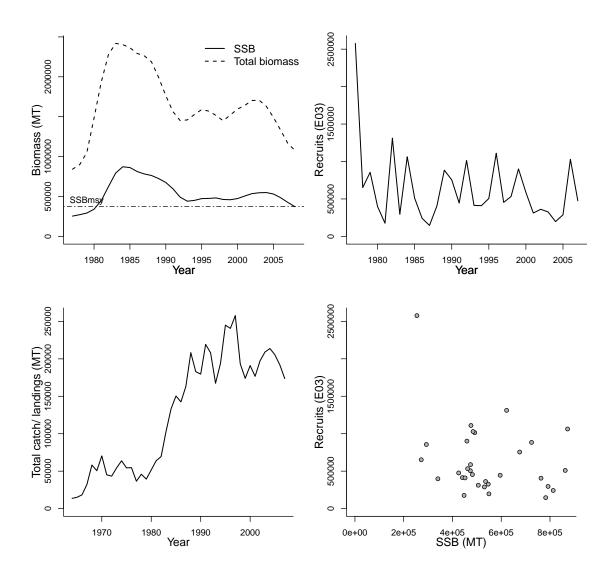
Area ID: USA-NMFS-BSAI

General assessment details.

Detail	Value	
Management body	NMFS	
Assessment group	Alaska Fisheries Science Center	
Assessment authors	Thompson G	
Assessment method	Stock Synthesis v2.0 model	
Publication year	2008	
Timeseries span	1964-2008	
Document	AFSC-PCODBSAI-2008-Pacific	cod
	BSAI.pdf (pdf in database)	
Recorder	MELNYCHUK	
Date entered	2009-04-14	
Date last loaded	2009-05-21	
QA/QC complete	NO	
Date approved		

p	rimary LM	E	secondary LME ter	iary LME	
1	- East Ber	ing Sea	na na		
Parameter	Value	Units	Referen	ce points	
REC-AGE-yr	0	yr	Parameter	Value	Units
F-AGE-yr-yr TB-AGE-yr A50-yr L50-cm M-1/yr NATMORT-1/y SSB-AGE-yr M	0+ 0+ 4.9 58 0.34 or 0.34	yr-yr yr yr cm 1/yr 1/yr	Fmsy-1/yr (F) NATMORT-1/yr (M) F40%-1/T SSBmsy-MT (SSB) SSBF40%-MT SSB0-MT (SSB) SSB_{2008}/SSB_{msy}	0.34 0.34 0.28 373000 426000 1066000.00 0.997	1/yr 1/yr 1/T MT MT MT

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1977	1977		1977	1964
Maximum year	2008	2007		2008	2007
Time series minimum	254248	146000		842241	13649
Time series maximum	872225	2577000		2418520	257762
Units	MT	E03		MT	MT



Assessment of Gulf of Alaska pacific cod (*Gadus* macrocephalus)

Assessment ID:AFSC-PCODGA-1964-2008-MELNYCHUK Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/271

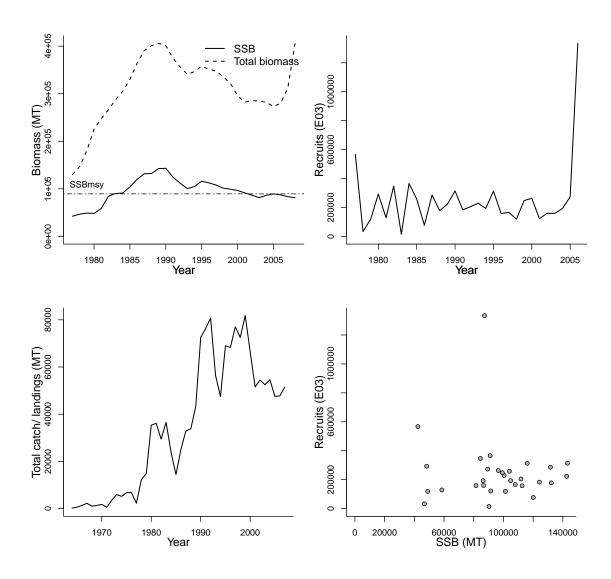
Area ID: USA-NMFS-GA

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Thompson G
Assessment method	Stock Synthesis v2.0 model
Publication year	2008
Timeseries span	1964-2008
Document	AFSC-PCODGA-2008-Pacific cod GA.pdf
	(pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-16
Date last loaded	2009-05-22
QA/QC complete	NO
Date approved	

prima	ary LME		sec	condary LME tertia	y LME	
2 - G	ulf of Ala	aska	na	na		
Parameter	Value	Units	<u> </u>			
SSB-AGE-yr	4.3	vr	_	Reference	points	
REC-AGE-yr	0	yr		Parameter	Value	Units
TB-AGE-yr	0+	yr vr		Fmsy-1/yr (F)	0.64	1/yr
A50-yr	4.3	yr		NATMORT-1/yr (M)		1/yr
L50-cm	58	cm		F40%-1/T	0.52	1/yr 1/T
M-1/yr	0.38	1/yr		SSBmsy-MT (SSB)	89400	=
NATMORT-1/yr	0.38	1/yr		SSBF40%-MT	10220	
F-AGE-yr		, , , -		SSB_{2008}/SSB_{msy}	0.911	
M			_			

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1977	1977		1977	1964
Maximum year	2008	2006		2008	2007
Time series minimum	42383	15000		130021	196
Time series maximum	143190	1334000		405770	81784
Units	MT	E03		MT	MT



Assessment of Gulf of Alaska pacific ocean perch (Sebastes alutus) Assessment ID:AFSC-POPERCHGA-1959-2008-MELNYCHUK

Assessment ID:AFSC-POPERCHGA-1959-2008-MELNYCHUK Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/289

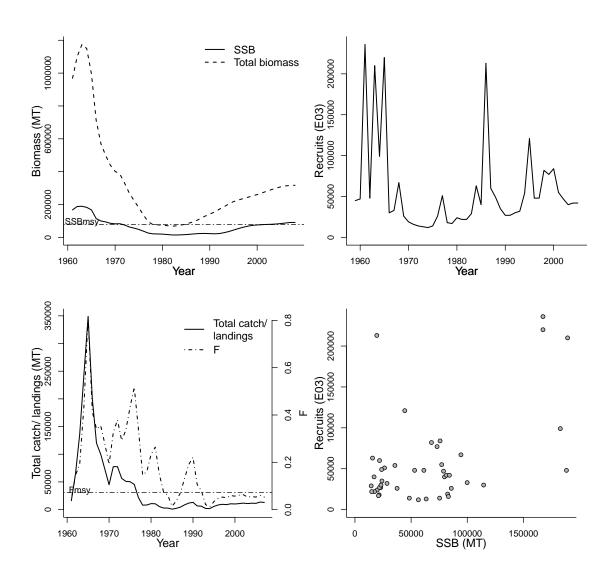
Area ID: USA-NMFS-GA

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Hanselman, D.
Assessment method	an AD-Model builder statistical Catch at
	Age Model
Publication year	2008
Timeseries span	1959-2008
Document	AFSC-POPERCHGA-2008-Pacific ocean
	perch GA.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-17
Date last loaded	2009-05-26
QA/QC complete	NO
Date approved	

prima	ry LME	sec	condary LME tertiary	LME	
2 - G1	ılf of Ala	ska na	na		
Parameter	Value	Units	Reference 1	points	
SSB-AGE-yr	10.5	yr	Parameter	Value	Units
REC-AGE-yr TB-AGE-yr A50-yr M-1/yr NATMORT-1/yr F-AGE-yr M L50-cm	2 2+ 10.5 0.06 0.06	yr yr yr 1/yr 1/yr	Fmsy-1/yr (F) NATMORT-1/yr (M) F40%-1/T SSBmsy-MT (SSB) SSBF40%-MT F_{2007}/F_{msy} SSB_{2008}/SSB_{msy}	0.073 0.06 0.061 78045 89195 0.726 1.165	1/yr 1/yr 1/T MT MT

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1961	1959	1961	1961	1961
Maximum year	2008	2005	2007	2008	2007
Time series minimum	14473	12000	0.012	68002	800
Time series maximum	189300	236000	0.816	1174760	348600
Units	MT	E03	1/yr	MT	MT



Assessment of Gulf of Alaska rougheye rockfish (Sebastes aleutianus)

Assessment ID:AFSC-REYEROCKGA-1974-2007-MELNYCHUK Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/290

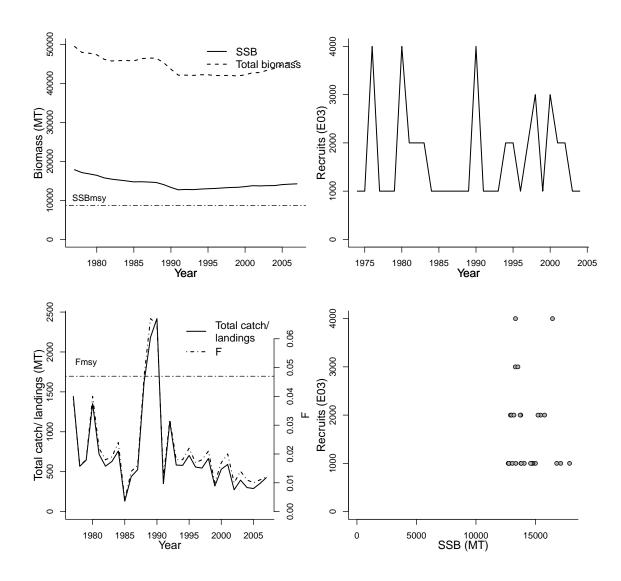
Area ID: USA-NMFS-GA

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Shotwell, S. Kalei
Assessment method	an AD-Model builder statistical Catch at
	Age Model
Publication year	2008
Timeseries span	1974-2007
Document	AFSC-RYEROCKGA-2008-Rougheye
	rockfish GA.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-23
Date last loaded	2009-05-22
QA/QC complete	NO
Date approved	

prima	ry LME	sec	ondary LME tertiary	LME	
2 - Gu	ılf of Ala	ska na	na		
Parameter	Value	Units	Reference p	oints	
REC-AGE-yr	3	yr	Parameter	Value	Units
TB-AGE-yr A50-yr L50-cm M-1/yr NATMORT-1/yr SSB-AGE-yr F-AGE-yr M	3+ 19 43.9 0.034 0.034 19	yr yr cm 1/yr 1/yr yr	Fmsy-1/T (F) NATMORT-1/yr (M) F40%-1/T SSBmsy-MT (SSB) SSBF40%-MT F_{2007}/F_{msy} SSB_{2007}/SSB_{msy}	0.047 0.034 0.039 8694 9935 0.255 1.638	1/T 1/yr 1/T MT MT

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1977	1974	1977	1977	1977
Maximum year	2007	2004	2007	2007	2007
Time series minimum	12709	1000	0.004	41889	130
Time series maximum	17865	4000	0.067	49471	2418
Units	MT	E03	1/yr	MT	MT



Assessment of Eastern Bering Sea / Aleutian Islands / Gulf of Alaska sablefish (*Anoplopoma fimbria*)

Assessment ID:AFSC-SABLEFEBSAIGA-1956-2008-MELNYCHUK Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/266

Area ID: USA-NMFS-EBSAIGA

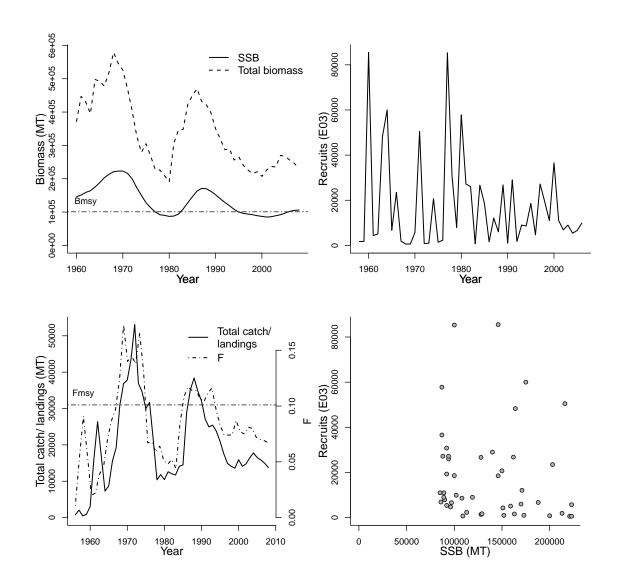
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Hanselman D
Assessment method	an AD-Model builder statistical Catch at
	Age Model
Publication year	2008
Timeseries span	1956-2008
Document	AFSC-SABLEFEBSAIGA-2008-Sablefish
	EBS AI GA.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-14
Date last loaded	2009-05-20
QA/QC complete	NO
Date approved	

primary LME	secondary LME	tertiary LME
1 - East Bering Sea	2 - Gulf of Alaska	na

Parameter	Value	Units	Reference	points	
	value	Ullits	Parameter	Value	Units
SSB-AGE-yr REC-AGE-yr TB-AGE-yr A50-yr L50-cm M-1/yr NATMORT-1/yr F-AGE-yr M	6.5 2 4+ 6.5 65 0.1 0.1	yr yr yr yr cm 1/yr 1/yr	Fmsy-1/yr (F) NATMORT-1/yr (M) F40%-1/T MSY-MT (TB) Bmsy-MT (TB) SSB0-MT (SSB) SSBF40%-MT TB_{2008}/B_{msy} F_{2008}/F_{msy}	0.101 0.1 0.085 19000 100730 287800 115120 2.283 0.663	1/yr 1/yr 1/T MT MT MT MT

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1960	1958	1960	1960	1956
Maximum year	2008	2006	2008	2008	2008
Time series minimum	85000	600	0.011	191000	477
Time series maximum	223000	85500	0.173	579000	53080
Units	MT	E03	1/yr	MT	MT



Assessment of Aleutian Islands walleye pollock

(Theragra chalcogramma)
Assessment ID:AFSC-WPOLLAI-1976-2008-MELNYCHUK Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacybug-reporting/284

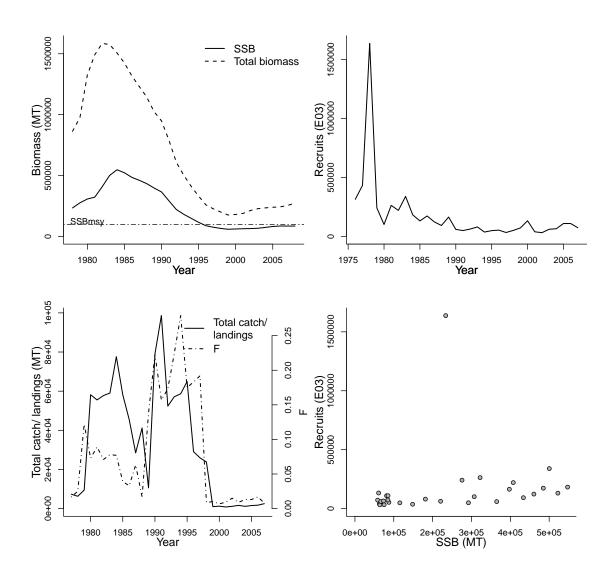
Area ID: USA-NMFS-AI

General assessment details.

Detail	Value				
Management body	NMFS				
Assessment group	Alaska Fisheries Science Center				
Assessment authors	Barbeaux, S.				
Assessment method	an AD-Model builder statistical Catch at				
	Age Model				
Publication year	2008				
Timeseries span	1976-2008				
Document	AFSC-WPOLLAI-2008-Walleye pollock				
	AI.pdf (pdf in database)				
Recorder	MELNYCHUK				
Date entered	2009-04-16				
Date last loaded	2009-05-26				
QA/QC complete	NO				
Date approved					

prima	ry LME		secondary LME tertiary	LME	
1 - Ea	st Berin	g Sea	na na		
Parameter	Value	Units	Reference p	oints	
SSB-AGE-yr	4.5	yr	<u> </u>	Value	Units
REC-AGE-yr F-AGE-yr-yr TB-AGE-yr A50-yr M-1/yr NATMORT-1/yr M L50-cm	2 2-15+ 2+ 4.5 0.215 0.215	yr yr-yr yr yr 1/yr	NATMORT-1/yr (M) F40%-1/T SSBmsy-MT (SSB) SSBF40%-MT F_{2008}/F_{msy}	0.357 0.215 0.288 98987 113128 0.022 0.858	1/yr 1/yr 1/T MT MT

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1978	1976	1978	1978	1977
Maximum year	2008	2007	2008	2008	2007
Time series minimum	58489	31500	0.007	175420	824
Time series maximum	547400	1637800	0.279	1585100	98604
Units	MT	E03	1/yr	MT	MT



Assessment of Eastern Bering Sea walleye pollock (*Theragra chalcogramma*) Assessment ID:AFSC-WPOLLEBS-1963-2008-MELNYCHUK

Assessment ID:AFSC-WPOLLEBS-1963-2008-MELNYCHUK Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/267

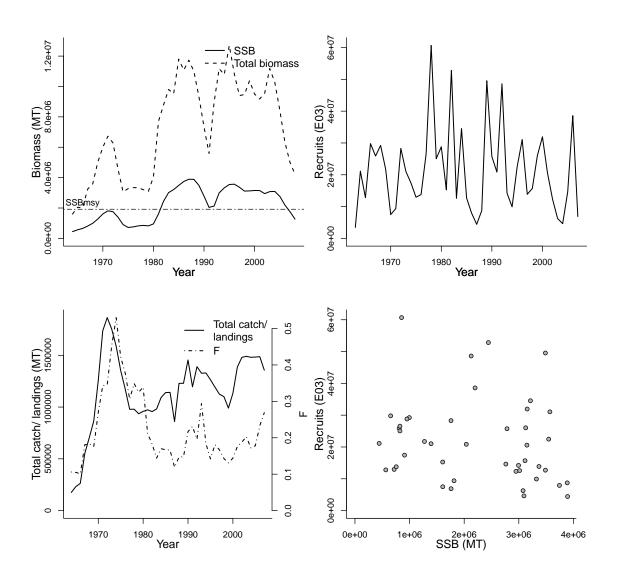
Area ID: USA-NMFS-EBS

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Ianelli JN
Assessment method	an AD-Model builder statistical Catch at
	Age Model
Publication year	2008
Timeseries span	1963-2008
Document	AFSC-WPOLLEBS-2008-Walleye pollock
	EBS.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-14
Date last loaded	2009-05-26
QA/QC complete	NO
Date approved	

	primary LM	E	secondary LME ter	tiary LME	
	1 - East Ber	ing Sea	na na		
Parameter SSB ACE vr	Value	Units	Referer Parameter	ice points Value	Units
SSB-AGE-yr REC-AGE-yr F-AGE-yr-yr TB-AGE-yr A50-yr M-1/yr NATMORT-1 M L50-em	1 1+ 3+ 3.5 0.3	yr yr-yr yr yr 1/yr	Fref-1/T (F) NATMORT-1/yr (M) F40%-1/T SSBmsy-MT (SSB) MSY-MT (TB) SSB0-MT (SSB) SSBF40%-MT BH-h-dimless SSB_{2008}/SSB_{msy}	0.398 0.3 0.332 1919000 977000 4,980,000 2427000 0.67 0.660	1/T 1/yr 1/T MT MT MT MT MT dimless

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1964	1963	1964	1964	1964
Maximum year	2008	2007	2007	2008	2007
Time series minimum	444000	3455000	0.101	1600000	175375
Time series maximum	3893000	60673000	0.53	12704000	1864100
Units	MT	E03	1/yr	MT	MT



Assessment of Gulf of Alaska walleye pollock

(Theragra chalcogramma)

Assessment ID:AFSC-WPOLLGA-1964-2008-MELNYCHUK Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/272

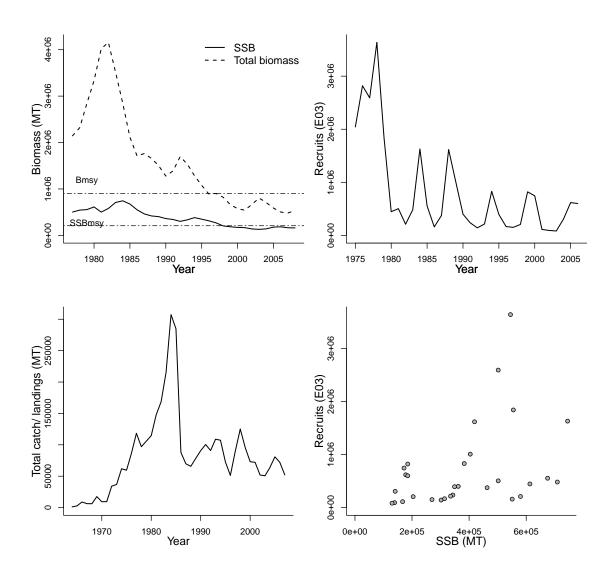
Area ID: USA-NMFS-GA

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Dorn, Martin
Assessment method	an AD-Model builder statistical Catch at
	Age Model
Publication year	2008
Timeseries span	1964-2008
Document	AFSC-WPOLLGA-2008-Walleye pollock
	GA.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-16
Date last loaded	2009-05-22
QA/QC complete	NO
Date approved	

	primary LMI	E se	condary LME tertiary	LME	
_	2 - Gulf of A	laska na	na na		
			Reference	points	
			Parameter	Value	Units
Parameter	Value	Units	Fmsy-1/yr (F)	0.286	1/yr
SSB-AGE-y	r 4.9	yr	NATMORT-1/yr (M)	0.3	1/yr
REC-AGE-y	r 2	yr	F40%-1/T	0.245	1/T
TB-AGE-yr	3+	yr	SSBmsy-MT (SSB)	208000	MT
A50-yr	4.9	yr	MSY-MT (TB)	169000	MT
L50-cm	43	cm	Umsy-ratio (U)	0.187	ratio
M-1/yr	0.3	1/yr	Bmsy-MT (TB)	903000	MT
NATMORT-	1/yr 0.3	1/yr	SSBF40%-MT	237000	MT
F-AGE-yr			BF40%-MT	975000	MT
M			U40%-ratio	0.161	ratio
			TB_{2008}/B_{msy}	2.582	
			SSB_{2008}/SSB_{msy}	0.774	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1977	1975		1977	1964
Maximum year	2008	2006		2008	2007
Time series minimum	130000	83000		481000	1126
Time series maximum	745000	3636000		4157000	307401
Units	MT	E03		MT	MT



Assessment of Bering Sea and Aleutian Islands yellowfin sole (*Limanda aspera*)

Assessment ID:AFSC-YSOLEBSAI-1959-2008-MELNYCHUK Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/270

Area ID: USA-NMFS-BSAI

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Wilderbuer T
Assessment method	an AD-Model builder statistical Catch at
	Age Model
Publication year	2008
Timeseries span	1959-2008
Document	AFSC-YSOLEBSAI-2008-Yellowfin sole
	BSAI.pdf (pdf in database)
Recorder	MELNYCHUK
Date entered	2009-04-14
Date last loaded	2009-05-22
QA/QC complete	NO
Date approved	

prima	primary LME			secondary LME tertiary LME			
1 - Ea	1 - East Bering Sea		n	a na			
Parameter	Value	Units	_				
SSB-AGE-yr REC-AGE-yr	10.5	yr yr	_	Refe Parameter	Reference points Value		Units
TB-AGE-yr A50-yr M-1/yr NATMORT-1/yr F-AGE-yr M	-yr 10.5 yr /yr 0.12 1/y MORT-1/yr 0.12 1/y	•	/yr	Fmsy-1/yr (F) NATMORT-1/2 SSBmsy-MT (S F_{2008}/F_{msy} SSB_{2008}/SSB_{m}	SSB)	0.13 0.12 329000 0.615 1.939	1/yr 1/yr MT
L50-cm							

Time series minima and maxima									
	SSB	R	F	TB	Catch				
Minimum year	1964	1959	1964	1964	1977				
Maximum year	2008	2003	2008	2008	2007				
Time series minimum	60692	519000	0.04	724283	58373				
Time series maximum	855155	3907000	0.83	2834670	227107				
Units	MT	E03	1/yr	MT	MT				

