1. Opening of the meeting
Dr. Guillermo Compeán, Director of the IATTC, opened the meeting, and welcomed two new members to the SAB, Dr. Luis Fleischer (Mexico) and Mr. Jeremy Rusin (U.S.). The participants are listed in Appendix 1.

2. Adoption of the agenda
The agenda was approved as presented.

3. Review of the SAB work plan
Dr. Martin Hall, of the IATTC staff, reviewed the SAB work plan. This year’s background document (SAB-6-03 REV) included an expanded review of research from 2002-2008.

4. Discussion of new research topics
Dr. Hall also introduced three research projects that the Director and staff wish to pursue.

a. Simultaneous tracking of dolphins and yellowfin tuna. A preliminary study conducted in 1992-1993, during which three pairs of spotted dolphins and yellowfin tuna were tagged and tracked simultaneously (the longest track was 31 hours), found that the association was not permanent, and that the dolphins and tunas swam at different depths. This study, combined with food habits research, indicates that the association is not based on eating similar prey, as spotted dolphins and yellowfin tuna feed at different times, often on different prey, and at different depths. More tracking studies are needed to determine under what circumstances the association forms and breaks up. The SAB agreed that this project should be pursued.

b. Detection of large yellowfin tuna not associated with dolphins. The proposed investigation would survey, on a vessel-by-vessel basis, how sonar is used to detect tunas in the EPO. This would provide the background data needed to determine how active or passive acoustic detection devices can be used to effectively detect tuna. The SAB agreed that this project should be pursued.

c. Updating estimates of dolphin abundance and $N_{min}$. New abundance estimates, published by the US National Marine Fisheries Service (NMFS), are summarized in Document SAB-6-03 ADD REV.
Previously, the SAB had agreed that the recommendation of a technical workshop that a logistic model would be the most appropriate model to estimate abundance and $N_{min}$. After discussion, the SAB recommended that it was now time to adopt this model to calculate $N_{min}$ using all the data available, including the most recent estimates from 2003 and 2006. A new workshop would not be required to create these new estimates, as the methodology is straightforward for the IATTC staff to apply. The SAB recommends to the Meeting of the Parties that new Stock Mortality Limits (SMLs) be based on these recalculated $N_{min}$ estimates. The change is required because the current SMLs are based on older and fewer data, and which underestimate at least one of the major stocks, the eastern spinner dolphin.

The Work Plan was revised to include revision of $N_{min}$ estimates and SMLs (Appendix 2).

5. **Other business**

There was no other business.

6. **Place and date of next meeting**

The next meeting of the SAB will be held in October 2009 in conjunction with the meeting of the Parties to the AIDCP.

7. **Adjournment**

The meeting was adjourned.
Appendix 1.

ATTENDEES - ASISTENTES

BOARD MEMBERS-MIEMBROS DEL CONSEJO

JAVIER ARÍZ
Instituto Español de Oceanografía
javier.ariz@ca.ieo.es

ALVIN DELGADO
PNOV/FUNDATUN
fundatunpnov@cantv.net

MICHEL DREYFUS
Instituto Nacional de Pesca
dreyfus@cicese.mx

LUIS FLEISCHER
Centro Regional de Investigación Pesquera
lfleischer21@yahoo.com

RAMÓN MONTAÑO
Subsecretaría de Recursos Pesqueros
rmontaño@pesca.gov.ec

JEREMY RUSIN
NOAA/National Marine Fisheries Service
jeremy.rusin@noaa.gov

OBSERVERS - OBSERVADORES

MARIO AGUILAR
CONAPESCA
mariogaguilars@aol.com

HUGO ALSINA
Ministerio de Agricultura, Ganadería y Alimentación
hugo.alsina@maga.gob.gt

MATE BARAKA
Sociedad Nacional de Pesquería
spnma@terra.com.pe

HERNÁN BECERRA
Ministerio de Defensa Nacional
nan_ma@hotmail.es

LUIGI BENINCASA
ATUNEC
info@atunec.com.ec

CRISTOBEL BLOCK
Humane Society International
kblock@hsus.org

ALVARO BUSTAMANTE
ATUNEC S.A.
abs@atunec.com.co

ALVARO BUSTAMANTE JR.
ATUNEC S.A.
alvarojr.bustamante@atunec.com.co

DIEGO CANELOS
Seatech International, Inc.
dcanelos@seatechint.net

GLADYS CÁRDENAS
Instituto del Mar del Perú
gcardenas@imarpe.gob.pe

BERNAL CHAVARRÍA
Instituto Costarricense de Pesca y Acuicultura
bchavarría@bcvabogados.com

VICTORIA CORNISH
Ocean Conservancy
vcornish@oceanaconservancy.org

MANUEL CORREA
PNOV/FUNDATUN
mcorrea@cantv.net

MARTHA DE LA PAVA
Instituto Colombiano Agropecuario
martha.delapaya@ica.gob.co

FRATERNO DÍAZ
Ministerio de Agricultura, Ganadería y Alimentación
fraterno.diaz@maga.gob.pe

RODNEY McINNIS
NOAA/National Marine Fisheries Service
rod.mcinnis@noaa.gov

SARAHC MCTEE
U.S. Department of State
mcteeusa@state.gov

JULIO MORÓN
OPAGAC
opagac@arrakis.es

SANTIAGO NECHE
Embajada de España en Washington
neches@mapausa.org

MANUEL OLIVA
CENDEPESCA
moliva@mag.gob.sv

ABEL PALADINES
Paladines Hermanos
cammacpc@gye.satnet.net

ORLANDO PÉREZ
Secretaría de Economía
operez@economia.gob.mx

VLADIMIR Puentes
Ministerio de Ambiente, Vivienda y Desarrollo Territorial
vpuentes@minambiente.gob.co

ALVARO Ríos
Registro Internacional Boliviano de Buques
asesor_juridico@ribb.gov.bo

CARLOS ROBLES
Ministerio de Agricultura y Desarrollo Rural
carlos.robles@minagricultura.gob.co

HUMBERTO ROBLES
Instituto Nacional de Pesca
hrobles@cicese.mx

MARIFLORES ROMERO
Instituto Socialista de la Pesca y Acuicultura
orinsopesca@gmail.com

DANILO ROSALES
Instituto Nicaragüense de Pesca y Acuicultura
drosales@inpesca.gob.ni

MARTINA SAGAPOLU
NOAA/National Marine Fisheries Service
martina.sagapolu@noaa.gov

CARLOS SÁNCHEZ
CALVO PESCA
carlos.sanchez@calvo.es
<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARÍA PATRICIA DÍAZ</td>
<td>FIPESCA</td>
<td><a href="mailto:latintuna@yahoo.com">latintuna@yahoo.com</a></td>
</tr>
<tr>
<td>STAFFAN EKWALL</td>
<td>European Commission</td>
<td><a href="mailto:staffan.ekwall@ec.europa.eu">staffan.ekwall@ec.europa.eu</a></td>
</tr>
<tr>
<td>CHRISTOPHER FANNING</td>
<td>NOAA/National Marine Fisheries Service</td>
<td><a href="mailto:chris.fanning@noaa.gov">chris.fanning@noaa.gov</a></td>
</tr>
<tr>
<td>ARNULFO FRANCO</td>
<td>Fundación Internacional de Pesca</td>
<td><a href="mailto:arnulf.franco@gmail.com">arnulf.franco@gmail.com</a></td>
</tr>
<tr>
<td>ROBERTO FREIRE</td>
<td>Ministerio de Defensa Nacional</td>
<td><a href="mailto:rrsgfreire@gmail.com">rrsgfreire@gmail.com</a></td>
</tr>
<tr>
<td>ESTANISLAO GARAVILLA</td>
<td>OPAGAC</td>
<td><a href="mailto:egaravilla@isabel.net">egaravilla@isabel.net</a></td>
</tr>
<tr>
<td>JULIO GUEVARA</td>
<td>Comercial Atunera</td>
<td><a href="mailto:cpesca@gfextun.com">cpesca@gfextun.com</a></td>
</tr>
<tr>
<td>ARMANDO HERNÁNDEZ</td>
<td>ICA/Programa Nacional de Observadores de Colombia</td>
<td>dirpesca@<a href="mailto:fertilidad@cable.net.co">fertilidad@cable.net.co</a></td>
</tr>
<tr>
<td>DAVID HOGAN</td>
<td>U.S. Department of State</td>
<td><a href="mailto:hogandk@state.gov">hogandk@state.gov</a></td>
</tr>
<tr>
<td>WILLIAM JACOBSON</td>
<td>NOAA/National Marine Fisheries Service</td>
<td><a href="mailto:bill.jacobson@noaa.gov">bill.jacobson@noaa.gov</a></td>
</tr>
<tr>
<td>IMANOL LOÍNIZ</td>
<td>Albacora S.A.</td>
<td><a href="mailto:iloiniz@albacora.es">iloiniz@albacora.es</a></td>
</tr>
<tr>
<td>ALEJANDRO LONDOÑO</td>
<td>Asociación Nacional de Empresarios de Colombia</td>
<td><a href="mailto:alondono@andi.com.co">alondono@andi.com.co</a></td>
</tr>
<tr>
<td>LILLO MANISCALCHI</td>
<td>Avatun</td>
<td><a href="mailto:lillemanscalchi@yahoo.com">lillemanscalchi@yahoo.com</a></td>
</tr>
<tr>
<td>ALFONSO MIRANDA</td>
<td>Ministerio de la Producción</td>
<td><a href="mailto:amiranda@produce.gob.pe">amiranda@produce.gob.pe</a></td>
</tr>
<tr>
<td>GUILLERMO COMPEÁN, Director</td>
<td></td>
<td><a href="mailto:gcompean@iattc.org">gcompean@iattc.org</a></td>
</tr>
<tr>
<td>ERNESTO ALTAMIRANO</td>
<td></td>
<td><a href="mailto:saltamirano@iattc.org">saltamirano@iattc.org</a></td>
</tr>
<tr>
<td>RICARDO BELMONTE</td>
<td></td>
<td><a href="mailto:rbelmontes@iattc.org">rbelmontes@iattc.org</a></td>
</tr>
<tr>
<td>DAVID BRATTEN</td>
<td></td>
<td><a href="mailto:dbratten@iattc.org">dbratten@iattc.org</a></td>
</tr>
<tr>
<td>MÓNICA GALVÁN</td>
<td></td>
<td><a href="mailto:mgalvan@iattc.org">mgalvan@iattc.org</a></td>
</tr>
<tr>
<td>MARTÍN HALL</td>
<td></td>
<td><a href="mailto:mhall@iattc.org">mhall@iattc.org</a></td>
</tr>
<tr>
<td>CARMEN SANDOVAL</td>
<td>Ministerio de Agricultura, Ganadería y Alimentación</td>
<td><a href="mailto:carmen.sandoval@maga.gob.gt">carmen.sandoval@maga.gob.gt</a></td>
</tr>
<tr>
<td>ARMANDO SEGURO</td>
<td>Cámaras de la Pesca de Nicaragua</td>
<td><a href="mailto:capecen@ibw.com.nl">capecen@ibw.com.nl</a></td>
</tr>
<tr>
<td>CRISTINA STREDEL</td>
<td>Instituto Socialista de la Pesca y Acuicultura</td>
<td><a href="mailto:orinopesca@gmail.com">orinopesca@gmail.com</a></td>
</tr>
<tr>
<td>RANDI THOMAS</td>
<td>National Fisheries Institute</td>
<td><a href="mailto:rthomas@nfi.org">rthomas@nfi.org</a></td>
</tr>
<tr>
<td>LÚIS TORRES</td>
<td>Subsecretaria de Recursos Pesqueros</td>
<td><a href="mailto:probecuador@gave.satnet.net">probecuador@gave.satnet.net</a></td>
</tr>
<tr>
<td>JAIME TRUJILLO</td>
<td>Pesquera Hayduk S.A.</td>
<td><a href="mailto:arimachi@hayduk.com.pe">arimachi@hayduk.com.pe</a></td>
</tr>
<tr>
<td>RAFAEL TRUJILLO</td>
<td>Cámara Nacional de Pesquería</td>
<td><a href="mailto:direjec@camaradepesqueria.com">direjec@camaradepesqueria.com</a></td>
</tr>
<tr>
<td>ASDRÚBAL VÁSQUEZ</td>
<td>Ministerio de Agricultura y Ganadería</td>
<td><a href="mailto:yazquez1@ice.co.cr">yazquez1@ice.co.cr</a></td>
</tr>
<tr>
<td>CARLOS VILLALOBOS</td>
<td>Instituto Costarricense de Pesca y Acuicultura</td>
<td><a href="mailto:cvillas@racsa.co.cr">cvillas@racsa.co.cr</a></td>
</tr>
<tr>
<td>BRADLEY WILEY</td>
<td>NOAA/National Marine Fisheries Service</td>
<td><a href="mailto:brad.wiley@noaa.gov">brad.wiley@noaa.gov</a></td>
</tr>
<tr>
<td>SARAH WILKIN</td>
<td>NOAA/National Marine Fisheries Service</td>
<td><a href="mailto:sarah.wilkin@noaa.gov">sarah.wilkin@noaa.gov</a></td>
</tr>
<tr>
<td>JOHN ZUANICH</td>
<td>Star Kist Company</td>
<td><a href="mailto:john.zuanich@delmonte.com">john.zuanich@delmonte.com</a></td>
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<td><a href="mailto:nwebb@iattc.org">nwebb@iattc.org</a></td>
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<th>Research Topics</th>
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| 1. Prevalence and significance of cow-calf separation. | A) Aerial photogrammetry  
B) At-sea observations  
C) Spatial distribution of chase time | A-C) Conduct research to discover evidence of cow-calf separation during chase. |
| 2. Life history and fishery-related-stress effects studies. | A) Life history studies  
1) Reproductive parameters/ vital rates  
2) Food habits  
3) Trophic interactions  
B) Stress effects  
1) Necropsy studies | A-B) Resume sampling program to conduct studies on these topics. |
| 3. Review of currently available estimates of abundance for dolphin stocks. | A) Review current abundance estimates | A) Revise $N_{min}$ estimates and Stock Mortality Limits. |
| 4. Stock assessment of coastal spotted dolphins | A) Genetics and taxonomy research  
| 5. Ecosystem effects. | A) Trends in other EPO cetaceans  
B) Ecosystem models  
C) Effect of large-scale changes in 1970s  
D) Carrying capacity and $R_{max}$ for dolphins | A-D) Maintain on Work Plan. |
B) Potential unobserved sources of mortality  
1) Comparison of observer programs  
2) Class-5 vessels  
3) Other fisheries | A) Maintain on Work Plan.  
B) Monitor ongoing comparisons for IRP$^1$. |
| 7. Population modeling | A) Model effects of unobserved mortality  
B) Other population models | A) Expand NMFS simulation studies to prioritize research.  
B) Maintain on Work Plan. |
| 8. Development in gear technology and fishing techniques to improve dolphin release. | A) Net panels  
| 9. Capture of mature tuna not in association with dolphins. | A) Simultaneous tracking of dolphins and tuna  
B) Survey fleet’s use of passive and active detection devices | A) Produce research proposal to conduct study.  
B) Add to Work Plan. |

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$^1$ Pending consultation with the Parties regarding confidentiality issues.