Measurements of Pop-Up Tag Performance

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196 tags in last 3 years
35 MT, 161 WC
43 still out
Average number of days of transmission for tags that transmitted = 12.3 ± 4.06
Average number of messages transmitted for tags that did transmit = 1253.1 ± 833.0
Number of Messages Transmitted as a Function of Pop-off Latitude
Number of Messages transmitted vs. Number of days of Transmission

Number of messages

Days transmitted
Average percent of messages that are valid for tags that transmitted = 54% ± 15%
Average number of valid messages transmitted for tags that did transmit = 735.1 ± 551.3
Mean # days attached to fish (transmitted) = 30 days ± 43

- 20 tags (13%) have stayed on until the scheduled pop-up date
- Of these, 12 (8%) transmitted useable data
- 191 days is the record for successful deployment
Tag Retention Success by Species

Note: Does not include tags that are still out
## Tarpon Tags

<table>
<thead>
<tr>
<th>study year</th>
<th>tags deployed</th>
<th>average # days on shed</th>
<th># of tags shed</th>
<th>pre-release software</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001</td>
<td>7</td>
<td>3</td>
<td>2</td>
<td>4</td>
<td>1 did not report</td>
</tr>
<tr>
<td>2002</td>
<td>8</td>
<td>20</td>
<td>7</td>
<td>0</td>
<td>1 still on</td>
</tr>
</tbody>
</table>
Microwave Telemetry vs. Wildlife Computers

Tag retention for striped marlin
Wildlife Computers – In 2001, after 16 days 6 tags had shed (15%)
Microwave Telemetry – In 2002, after 16 days 2 tags have shed (6.7%)

Message transmission
Wildlife Computers average number of days transmitting = 12
Average number of messages per day = 102
Microwave Telemetry tag transmitted for 14 days
Number of messages per day ranged from 60-107 (avg. 73)
Number of Messages transmitted vs. Number of days of Transmission

Number of messages vs. Days transmitted