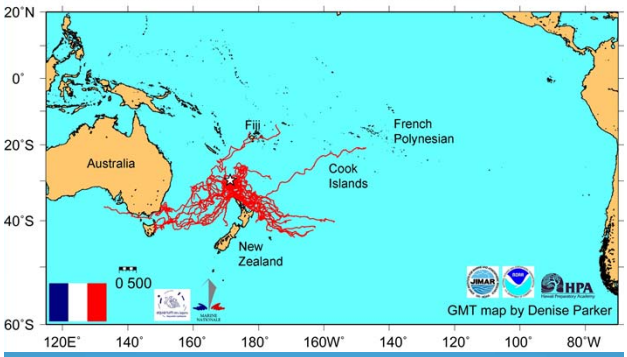
Partnership overview of Southern Hemisphere loggerhead satellite tracking 2007-2014

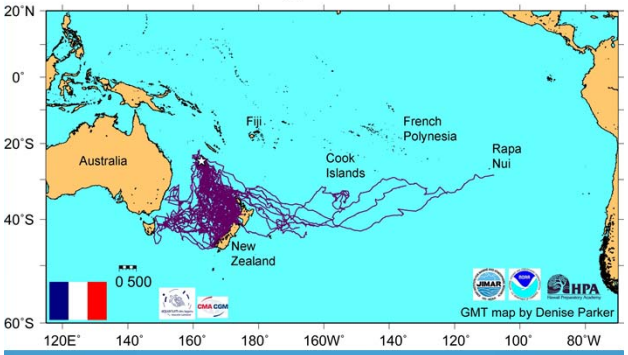
Denise M Parker and George H Balazs

Location	Date	Number deployed	Life Stage
Bourail New Caledonia	2007-2008, 2011-2012, 2012-2013	3	Adult
South Pacific New Caledonia	2008-2009	42	Juvenile
South Pacific New Caledonia	2012-2013	46	Juvenile
Lord Howe Is. Australia	2010-2013	2	Juvenile
New Zealand	2009-2010	1	Subadult
French Polynesia	2013-2014	1	Subadult
Fiji	2010-2012	3	Adult
Total Deployed	2007-2014	98	

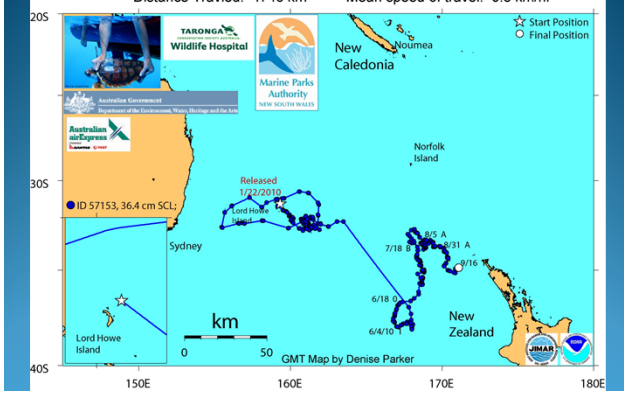
2008-2009 Satellite tracks for loggerhead turtles released in the South Pacific



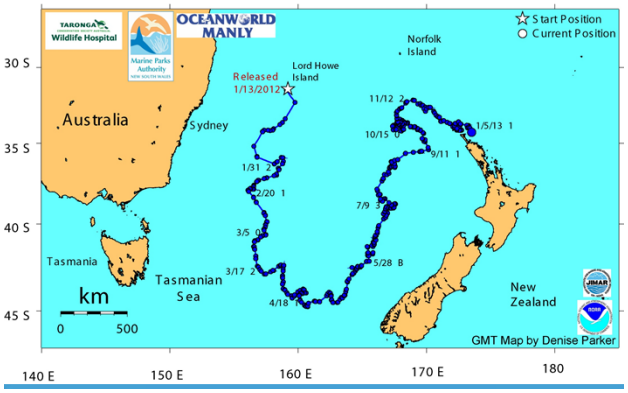
2012-2014 Satellite tracks for loggerhead turtles released in the South Pacific

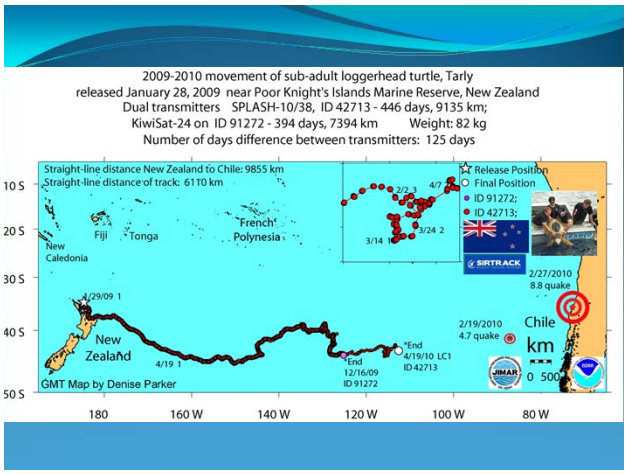


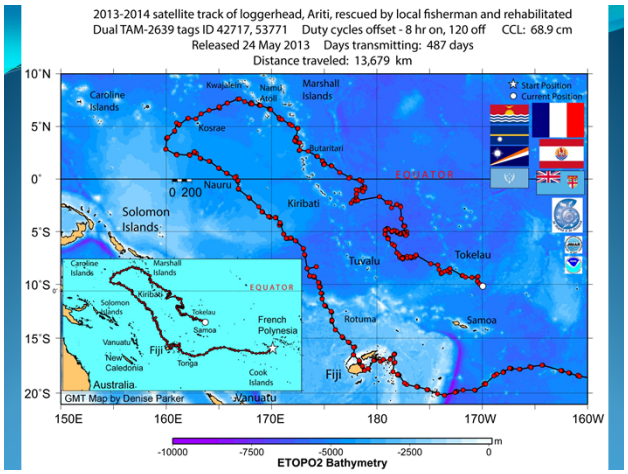
2010 Movement of juvenile loggerhead turtle, ID 57153
released 1/22/2010 15 km from Lord Howe Island
rehabilitated at the Taronga Zoo, Sydney, Australia
SPOT5 transmitter 9/39 Days transmitting: 237 days
Distance Travled: 4746 km Mean speed of travel: 0.8 km/hr

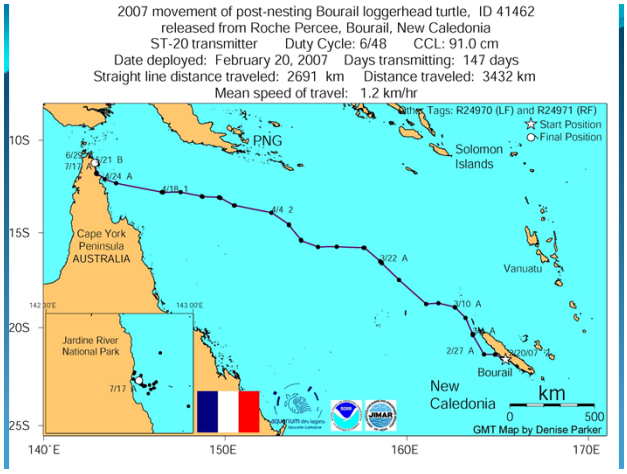


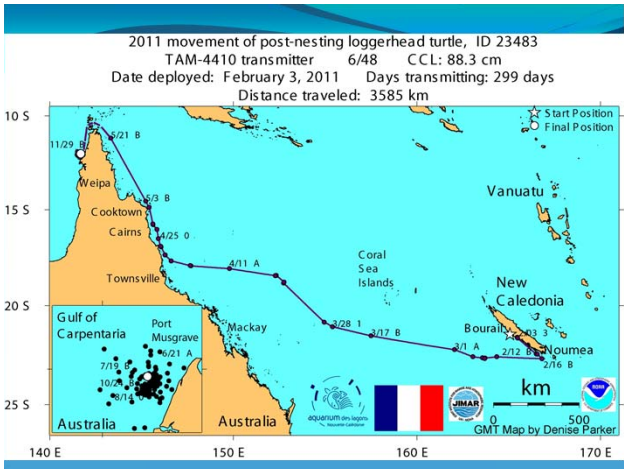
2012-2013 movement of juvenile loggerhead turtle, ID 19597
released 1/13/2012 - from Lord Howe Island
Rehabilitated at the Taronga Zoo, Sydney, Australia
SPOT5 transmitter 6/42 Days transmitting: 359 days

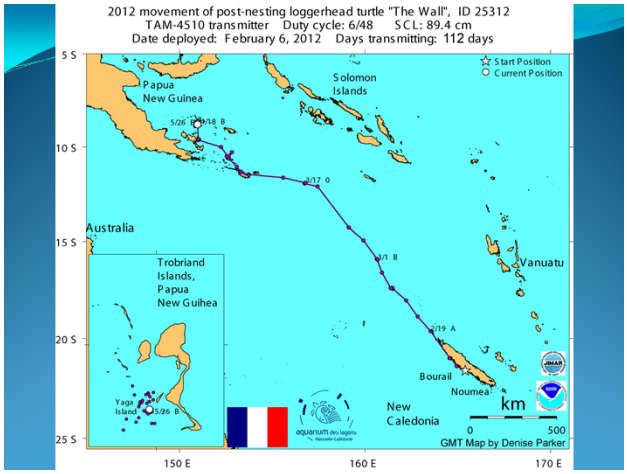


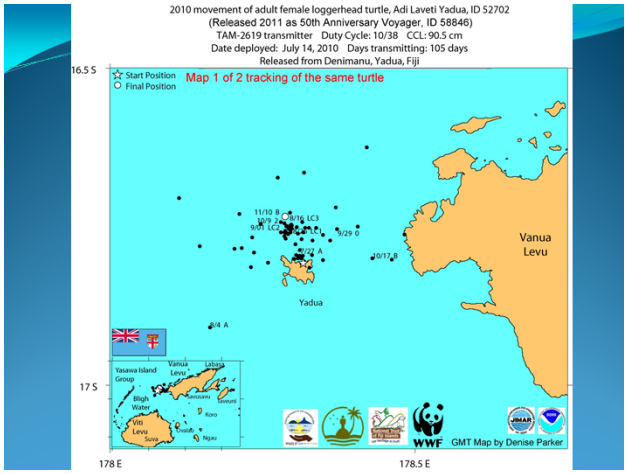

2009-2010 movement of sub-adult loggerhead turtle, Tarly
released January 28, 2009 near Poor Knight's Islands Marine Reserve, New Zealand
Dual transmitters SPLASH-10/38, ID 42713 - 446 days, 9135 km;
KiwiSat-24 on ID 91272 - 394 days, 7394 km Weight: 82 kg
Number of days difference between transmitters: 125 days
Straight-line distance New Zealand to Chile: 9855 km
Straight-line distance of track: 6110 km
Release Position
Final Position
ID 91272;
ID 42713;
New Caledonia
Fiji
Tonga
French Polynesia
New Zealand
Chile
2/27/2010 8.8 quake
2/19/2010 4.7 quake
km
0 500
GMT Map by Denise Parker
180
160 W
140 W
120 W
100 W
80 W

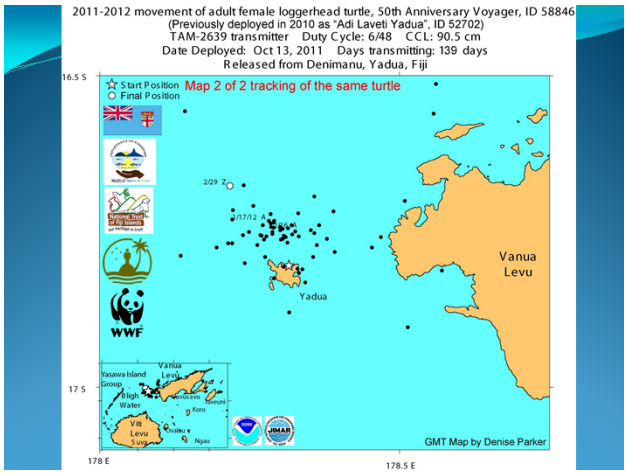

2013-2014 satellite track of loggerhead, Ariti, rescued by local fisherman and rehabilitated
Dual TAM-2639 tags ID 42717, 53771 Duty cycles offset - 8 hr on, 120 off CCL: 68.9 cm
Released 24 May 2013 Days transmitting: 487 days
Distance traveled: 13,679 km
Start Position
Current Position
Caroline Islands
Kwajalein
Marshall Islands
Kosrae
Nauru
Kiribati
Solomon Islands
Tuvalu
Tokelau
Rotuma
Samoa
Fiji
Vanuatu
Australia
GMT Map by Denise Parker
ETOPO2 Bathymetry

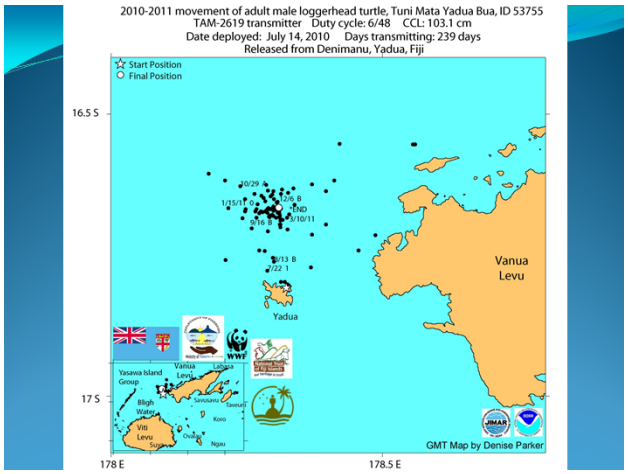

2007 movement of post-nesting Bourail loggerhead turtle, ID 41462
released from Roche Percee, Bourail, New Caledonia
ST-20 transmitter Duty Cycle: 6/48 CCL: 91.0 cm
Date deployed: February 20, 2007 Days transmitting: 147 days
Straight line distance traveled: 2691 km Distance traveled: 3432 km
Mean speed of travel: 1.2 km/hr
Other Tags: R24970 (LF) and R24971 (RF)
Start Position
Final Position
PNG
Solomon Islands
Cape York Peninsula AUSTRALIA
Vanuatu
Jardine River National Park
Bourail
New Caledonia
km
0 500
GMT Map by Denise Parker
140°E
150E
160E
170E

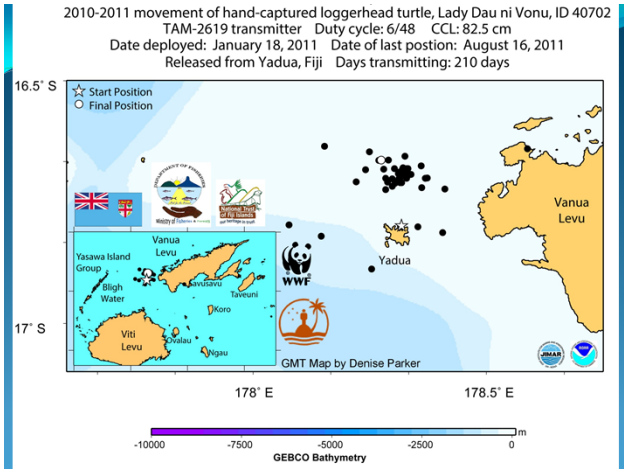

2011 movement of post-nesting loggerhead turtle, ID 23483
TAM-4410 transmitter 6/48 CCL: 88.3 cm
Date deployed: February 3, 2011 Days transmitting: 299 days
Distance traveled: 3585 km
Start Position
Final Position
Weipa
Cooktown
Cairns
Townsville
Vanuatu
Coral Sea Islands
New Caledonia
Gulf of Carpentaria
Port Musgrave
Mackay
Bourail
Noumea
Australia
km
0 500
GMT Map by Denise Parker
140 E
150 E
160 E
170 E

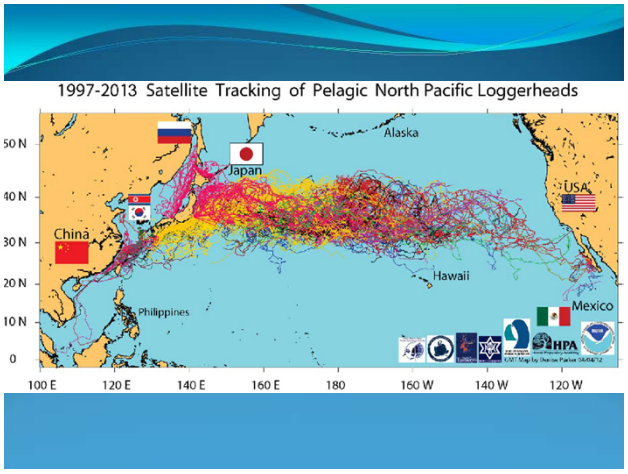

2012 movement of post-nesting loggerhead turtle "The Wall", ID 25312
TAM-4510 transmitter Duty cycle: 6/48 SCL: 89.4 cm
Date deployed: February 6, 2012 Days transmitting: 112 days
Start Position
Current Position
Papua New Guinea
Solomon Islands
Australia
Trobriand Islands, Papua New Guinea
Vanuatu
Bourail
Noumea
New Caledonia
km
0 500
GMT Map by Denise Parker
150 E
160 E
170 E

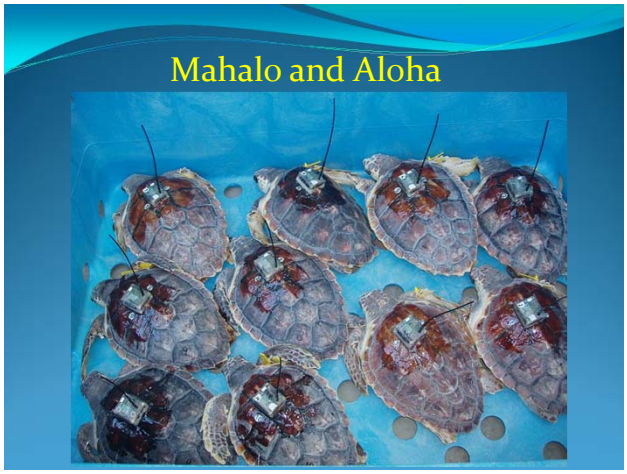

2010 movement of adult female loggerhead turtle, Adi Laveti Yadua, ID 52702
(Released 2011 as 50th Anniversary Voyager, ID 58846)
TAM-2619 transmitter Duty Cycle: 10/38 CCL: 90.5 cm
Date deployed: July 14, 2010 Days transmitting: 105 days
Released from Denimanu, Yadua, Fiji
Start Position
Final Position
Map 1 of 2 tracking of the same turtle
Vanua Levu
Yadua
GMT Map by Denise Parker
178 E
178.5 E


2011-2012 movement of adult female loggerhead turtle, 50th Anniversary Voyager, ID 58846
(Previously deployed in 2010 as "Adi Laveti Yadua", ID 52702)
TAM-2639 transmitter Duty Cycle: 6/48 CCL: 90.5 cm
Date Deployed: Oct 13, 2011 Days transmitting: 139 days
Released from Denimanu, Yadua, Fiji
Start Position
Final Position
Map 2 of 2 tracking of the same turtle
Vanua Levu
Yadua
GMT Map by Denise Parker
16.5 S
17 S
178 E
178.5 E


2010-2011 movement of adult male loggerhead turtle, Tuni Mata Yadua Bua, ID 53755
TAM-2619 transmitter Duty cycle: 6/48 CCL: 103.1 cm
Date deployed: July 14, 2010 Days transmitting: 239 days
Released from Denimanu, Yadua, Fiji
Start Position
Final Position
Vanua Levu
Yadua
GMT Map by Denise Parker
16.5 S
17 S
178 E
178.5 E


2010-2011 movement of hand-captured loggerhead turtle, Lady Dau ni Vonu, ID 40702
TAM-2619 transmitter Duty cycle: 6/48 CCL: 82.5 cm
Date deployed: January 18, 2011 Date of last postion: August 16, 2011
Released from Yadua, Fiji Days transmitting: 210 days
Start Position
Final Position
Vanua Levu
Yadua
Yasawa Island Group
Bligh Water
Viti Levu
GMT Map by Denise Parker
16.5° S
17° S
178° E
178.5° E
-10000
-7500
-5000
-2500
0
m
GEBCO Bathymetry


1997-2013 Satellite Tracking of Pelagic North Pacific Loggerheads
Alaska
Japan
USA
China
Hawaii
Mexico
Philippines
50 N
40 N
30 N
20 N
10 N
0
100 E
120 E
140 E
160 E
180
160 W
140 W
120 W


Mahalo and Aloha