

Table S1. Sighting details from false killer whale encounters with usable IDs collected from 1991-2022 from S. California to Panama, including Isla Del Cocos, Costa Rica. Research group and region abbreviations: Cascadia Research Collective (CRC); Fundacion Keto (KETO); Captain Dave Dolphin and Whale Safari (CaptDave), central mainland Mexico (MXC), southern mainland Mexico (MXS).

| Date | Research Group Contributor¹ | Vessel | Group Number | Est. N. animals | Presence of Calves | Region |
|-------------|---|---------------|-------------------------|----------------------------|-------------------------------|---------------|
| 7-Dec-1991 | A. Acevedo-Gutiérrez | AA | 1 | 14 | Unk | S. CostaRica |
| 12-Nov-1992 | A. Acevedo-Gutiérrez | AA | 2 | 11 | Unk | S. CostaRica |
| 25-Mar-1993 | A. Acevedo-Gutiérrez | AA | 3 | 13 | Unk | IslaDelCoco |
| 31-Mar-1993 | A. Acevedo-Gutiérrez | AA | 4 | 4 | Unk | IslaDelCoco |
| 7-Jan-1994 | A. Acevedo-Gutiérrez | AA | 5 | 34 | 2 | IslaDelCoco |
| 29-Jan-1994 | A. Acevedo-Gutiérrez | AA | 6 | 14 | 3 | IslaDelCoco |
| 30-Jan-1994 | A. Acevedo-Gutiérrez | AA | 7 | 16 | 3 | IslaDelCoco |
| 31-Jan-1994 | A. Acevedo-Gutiérrez | AA | 8 | 32 | 1 | IslaDelCoco |
| 28-Feb-1994 | A. Acevedo-Gutiérrez | AA | 9 | 14 | 2 | IslaDelCoco |
| 27-Jan-1998 | CRC | KR98 | 10 | 5 | 0 | S. CostaRica |
| 29-Jan-1998 | CRC | KR98 | 11 | 30 | Unk | S. CostaRica |
| 27-Jan-2000 | CRC | JAC00 | 12 | 12 | Unk | S. CostaRica |
| 20-Mar-2004 | Mexico Catalog/A. Frisch | | MX_1 | 10-12 | Yes | MXC |

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|-------------|---------------------------------|-----------------|----|----|-----|--------------|
| 28-Jan-2005 | CRC | MPS | 15 | 10 | 2 | Nicaragua |
| 28-Jan-2005 | CRC | MPS | 15 | 5 | 0 | Nicaragua |
| 5-Feb-2005 | CRC | TI | 17 | 20 | 1 | S. CostaRica |
| 13-Feb-2005 | KETO/ D. Martínez- Fernández | | 19 | 33 | Unk | S. CostaRica |
| 15-Feb-2005 | KETO/ D. Martínez- Fernández | | 20 | 4 | Unk | S. CostaRica |
| 6-Dec-2005 | Perla del Sur Tour Operators | PerlaDelS ur | 18 | 5 | Unk | S. CostaRica |
| 6-Dec-2005 | KETO/ D. Martínez- Fernández | | 18 | 5 | Unk | S. CostaRica |
| 24-Jan-2006 | CRC | Tico | 21 | 12 | 0 | S. CostaRica |
| 27-Jan-2006 | CRC | RA | 22 | 40 | 4 | S. CostaRica |
| 27-Jan-2006 | CRC | RA | 22 | 20 | 0 | S. CostaRica |
| 27-Jan-2006 | CRC | RA | 22 | 20 | 2 | S. CostaRica |
| 28-Jan-2006 | CRC | RA | 23 | 20 | Unk | S. CostaRica |
| 28-Jan-2006 | CRC | RA | 23 | 50 | 4 | S. CostaRica |
| 28-Jan-2006 | CRC | Tico | 23 | 6 | 1 | S. CostaRica |
| 28-Jan-2006 | CRC | Tico | 23 | 5 | 0 | S. CostaRica |

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|-------------|------------------------------|-------------|------|----|-----|--------------|
| 28-Jan-2006 | KETO/ D. Martínez-Fernández | | 23 | 22 | Unk | S. CostaRica |
| 5-Feb-2007 | Perla del Sur Tour Operators | PerlaDelSur | 25 | 6 | Unk | S. CostaRica |
| 24-Jan-2008 | CRC | SeaRod | 26 | 15 | 2 | S. CostaRica |
| 5-Feb-2008 | Mexico Catalog/A. Frisch | | MX_4 | _ | No | MXC |
| 15-Feb-2008 | CRC | Mal | 28 | 25 | 1 | Nicaragua |
| 15-Feb-2008 | CRC | Mal | 28 | 12 | 1 | Nicaragua |
| 21-Aug-2008 | E. Quintana-Rizzo | EQR | 49 | 12 | 0 | Guatemala |
| 6-Dec-2008 | E. Quintana-Rizzo | EQR | 48 | 20 | 0 | Guatemala |
| 24-Jan-2009 | CRC | SR | 29 | 35 | 2 | S. CostaRica |
| 26-Jan-2009 | CRC | Dyanne | 30 | 18 | 2 | S. CostaRica |
| 28-Jan-2009 | CRC | SR | 31 | 22 | 2 | S. CostaRica |
| 29-Jan-2009 | CRC | BB | 32 | 22 | Unk | S. CostaRica |
| 29-Jan-2009 | CRC | Pariso III | 32 | 30 | 6 | S. CostaRica |
| 29-Jan-2009 | CRC | SR | 32 | 28 | 2? | S. CostaRica |
| 27-Jul-2009 | R. Monge Arias | RMA | 34 | 17 | Unk | S. CostaRica |

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|-------------|-----------------------------------|-----------------|------|-------|-----|--------------|
| 27-Jul-2009 | Perla del Sur Tour Operators | PerlaDelS ur | 34 | 1 | Unk | S. CostaRica |
| 3-Oct-2009 | CRC | DB | 35 | 7 | 2? | S. CostaRica |
| 13-Dec-2009 | Ester Quintana-Rizzo | EQR | 50 | 16 | 2 | Guatemala |
| 2-Sep-2010 | R. Monge Arias | | 36 | 6 | Unk | S. CostaRica |
| 28-Dec-2010 | R. Monge Arias | | 37 | 6 | 1 | S. CostaRica |
| 29-Dec-2010 | R. Monge Arias | | 38 | 9 | 1 | S. CostaRica |
| 13-Dec-2011 | Mexico Catalog/A. Frisch | | MX_5 | 200 | Yes | MXC |
| 8-Sep-2012 | F. Alvarez Madrigal | FAM | 55 | Unk | Unk | S. CostaRica |
| 1-Oct-2012 | Mexico Catalog/C. Ortega-Ortiz | | MX_6 | 10-12 | No | MXC |
| 8-Oct-2012 | Mexico Catalog/C. Ortega-Ortiz | | MX_7 | 10-15 | Yes | MXC |
| 9-Oct-2012 | F. Alvarez Madrigal | FAM | 56 | Unk | Unk | S. CostaRica |
| 17-Nov-2012 | Mexico Catalog/F. Villegas | | MX_8 | 10 | No | MXS |
| 28-Nov-2012 | F. Alvarez Madrigal | FAM | 57 | Unk | Unk | S. CostaRica |

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|-------------|--|-------|-------|-----|-----------------|
| 10-Dec-2012 | Mexico Catalog/ C. Ortega-Ortiz | MX_9 | 30-40 | No | MXC |
| 10-Jan-2013 | Mexico Catalog/O. Guzón | MX_10 | 200 | No | MXC |
| 8-Mar-2013 | Mexico Catalog/F. Villegas | MX_11 | 20 | Yes | MXS |
| 23-Mar-2013 | Mexico Catalog/J. Urbán | MX_12 | 80 | Yes | Baja California |
| 20-May-2013 | Mexico Catalog/J. Urbán | MX_13 | 5-6 | No | Baja California |
| 8-Aug-2013 | Mexico Catalog/F. Villegas | MX_14 | 23 | Yes | MXS |
| 12-Mar-2014 | Mexico Catalog/D. Frink, L. Kretschmar, D. Kalez | MX_15 | 50-70 | Yes | S. California |
| 14-Mar-2014 | Mexico Catalog/L. Kretschmar | MX_32 | Unk | Unk | S. California |
| 17-Mar-2014 | Mexico Catalog/C. Jaeger | MX_33 | Unk | Unk | S. California |
| 25-Mar-2014 | Mexico Catalog/L. Kretschmar, D. Kalez | MX_34 | Unk | Unk | S. California |
| 11-Mar-2015 | Mexico Catalog/A. Schulman-Janiger | MX_99 | Unk | Unk | S. California |

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|-------------|---|-------|-------|-------|-----|---------------|
| 5-Apr-2015 | Mexico Catalog/O. Guzón | | MX_17 | 70 | Yes | MXC |
| 19-Aug-2015 | Panacetacea/K. Rasmussen | PAN | 39 | 20-30 | No | W. Panama |
| 22-Aug-2015 | Panacetacea/K. Rasmussen | PAN | 40 | 50-70 | Unk | W. Panama |
| 25-Nov-2015 | Mexico Catalog/O. Guzón | | MX_18 | 25 | Yes | MXC |
| 27-Jan-2016 | Mexico Catalog/O. Guzón | | MX_19 | 50 | Yes | MXC |
| 14-Mar-2016 | Association ELI-S/J. De Weerdt | ELI-S | 41 | 6 | 1 | Nicaragua |
| 17-Mar-2016 | Association ELI-S/J. De Weerdt | ELI-S | 42 | 7 | 1 | Nicaragua |
| 19-Mar-2016 | Mexico Catalog/CaptDave _S. Velasco | | MX_31 | 15 | Yes | S. California |
| 18-Dec-2016 | Mexico Catalog/N. Ransome | | MX_20 | 15-25 | No | MXC |
| 4-Jan-2017 | Mexico Catalog/N. Ransome | | MX_21 | 15-25 | No | MXC |

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|-------------|-------------------------------|-------|-------|-------|-----|---------------|
| 27-Mar-2017 | Association ELI-S/J. De Weerd | ELI-S | 51 | 10 | 1 | Nicaragua |
| 5-Feb-2018 | Mexico Catalog/N. Ransome | | MX_22 | 40-50 | No | MXC |
| 18-Feb-2018 | Mexico Catalog/K. Audley | | MX_23 | 50 | Yes | MXC |
| 23-Feb-2018 | Panacetacea/K. Rasmussen | PAN | 43 | 40-50 | Unk | W. Panama |
| 26-Feb-2018 | Panacetacea/K. Rasmussen | PAN | 44 | 50 | Yes | W. Panama |
| 7-Mar-2018 | E. Quintana-Rizzo | EQR | 54 | 2 | 0 | Guatemala |
| 18-Mar-2018 | Mexico Catalog/N. Ransome | | MX_24 | 50-60 | No | MXC |
| 17-Dec-2018 | Mexico Catalog/N. Ransome | | MX_26 | 5 | No | MXC |
| 24-Feb-2019 | Mexico Catalog/K. Audley | | MX_27 | Unk | No | MXC |
| 5-Mar-2019 | Mexico Catalog/C. Mayer | | MX_36 | Unk | Yes | S. California |
| 5-Mar-2019 | Mexico Catalog/K. Campbell | | MX_36 | 35 | Unk | S. California |

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|-------------|--|---------------|-------|---------|-----|---------------|
| 6-Sep-2019 | Panacetacea/K. Rasmussen | PAN | 46 | 20-30 | Unk | W. Panama |
| 1-Feb-2020 | Mexico Catalog/C. Ortega-Ortiz | | MX_28 | 15-20 | No | MXC |
| 10-Sep-2020 | F. Garita/CRC | GaritaF | 47 | 30 | Unk | N. CostaRica |
| 2-Dec-2020 | Mexico Catalog/N. Ransome | | MX_29 | 100 +/- | No | MXC |
| 20-Mar-2021 | Mexico Catalog/CaptDave _C. Nieblas | | MX_38 | 25-40 | Yes | S. California |
| 6-Aug-2021 | Association ELI-S/J. De Weerdt | ELI-S | 52 | 25 | 3 | Nicaragua |
| 16-Aug-2021 | Association ELI-S/J. De Weerdt | ELI-S | 53 | 12 | 1 | Nicaragua |
| 20-Mar-2022 | Mexico Catalog/CaptDave _S. Fox, M. Stumpf | Dana Pride | MX_37 | 30 | Yes | S. California |
