

## Loggerhead mtDNA Sequences (380 bp)

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Loggerhead (*Caretta caretta*) mitochondrial DNA control region sequences: Atlantic and Mediterranean

The ACCSTR collaborates with **Brian Shamblin** (University of Georgia; email: [brian.shamblin@gmail.com](mailto:brian.shamblin@gmail.com)) to maintain this website.

To facilitate haplotype designations and to avoid confusion among ocean basins, we are using the nomenclature of CC-A# (prefix A before the number is used to designate that it is from the Atlantic basin; P will be used for the Pacific).

If you have a new sequence, please email the new sequence to [ACCSTR](mailto:accstr@ufl.edu) (accstr@ufl.edu), and we will confirm the status of the sequence and assign a sequence designation number. **It is the responsibility of the author of the new sequence to submit the sequence to GenBank** (<http://ncbi.nlm.nih.gov>). The data in GenBank are simultaneously made available to EMBL in Europe and the DNA Data Bank of Japan.

Click [HERE](#) to access a text file of the current loggerhead short mtDNA sequences.

The table below presents the metadata for the named haplotypes for Atlantic loggerhead sea turtles.

**Updated 10 August 2020**

| Haplotype | Genbank  | Reference or Contact   |
|-----------|----------|--|
| CC-A1     | AJ001074 | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype A) |
| CC-A2     | AJ001075 | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype B) |
| CC-A3     | AJ001076 | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype C) |
| CC-A4     | AJ001077 | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype D) |
| CC-A5     | AJ001078 | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype E) |
| CC-A6     | AJ001079 | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype F) |
| CC-A7     | AJ001080 | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype G) |

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|--------|----------|--|
| CC-A8  | AJ001081 | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype H)   |
| CC-A9  | AJ001082 | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype I)   |
| CC-A10 | AJ001083 | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype J)   |
| CC-A11 |          | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype K)   |
| CC-A12 |          | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype L)   |
| CC-A13 |          | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype M)   |
| CC-A14 |          | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype N)   |
| CC-A15 |          | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype O)   |
| CC-A16 |          | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype P)   |
| CC-A17 |          | Bolten <i>et al.</i> 1998. Ecological Applications 8:1-7 (Haplotype Q)   |
| CC-A18 | AY508983 | Bass <i>et al.</i> 2004. Conservation Genetics 5:783-796   |
| CC-A19 | AY508984 | Bowen <i>et al.</i> 2004. Molecular Ecology. 13:3797-3808  |
| CC-A20 | AY508985 | Bowen <i>et al.</i> 2004. Molecular Ecology. 13:3797-3808  |
| CC-A21 | AY508986 | Carreras <i>et al.</i> 2011. Journal of Heredity 102:666-677   |
| CC-A22 | AY508987 | Bowen <i>et al.</i> 2004. Molecular Ecology. 13:3797-3808  |
| CC-A23 | AY508988 | Bowen <i>et al.</i> 2004. Molecular Ecology. 13:3797-3808  |
| CC-A24 | AY508989 | Reis <i>et al.</i> 2010. Conservation Genetics 11:1467-1477  |
| CC-A25 | AY508990 | Reis <i>et al.</i> 2010. Conservation Genetics 11:1467-1477  |
| CC-A26 | HQ728521 | Carreras <i>et al.</i> 2006. Marine Biology 149:1269-1279  |
| CC-A27 | AY742908 | Carreras <i>et al.</i> 2006. Marine Biology 149:1269-1280  |
| CC-A28 | AY742909 | Carreras <i>et al.</i> 2006. Marine Biology 149:1269-1281  |
| CC-A29 | AY742910 | Carreras <i>et al.</i> 2006. Marine Biology 149:1269-1282  |
| CC-A30 | AY742911 | Carreras <i>et al.</i> 2006. Marine Biology 149:1269-1283  |
| CC-A31 | AY742912 | Carreras <i>et al.</i> 2006. Marine Biology 149:1269-1284  |
| CC-A32 | AY742913 | Carreras <i>et al.</i> 2006. Marine Biology 149:1269-1285  |
| CC-A33 |          | Reis <i>et al.</i> 2010. Conservation Genetics 11:1467-1477 *Equivalent to CCP5 from the Indo-Pacific: EF033113  |
| CC-A34 |          | Reis <i>et al.</i> 2010. Conservation Genetics 11:1467-1477 *Equivalent to CCP1 from the Indo-Pacific: EF033112  |
| CC-A35 |          | Reis <i>et al.</i> 2010. Conservation Genetics 11:1467-1477  |
| CC-A36 | DQ060038 | Shamblin <i>et al.</i> 2012. Marine Ecology Progress Series 469:145-160  |
| CC-A37 | AY680688 | Roberts <i>et al.</i> 2005. Conservation Genetics 6:133-139. Roberts <i>et al.</i> haplotype designations were assigned as follows to conform to designations used on this website:<br><br>A2 = CC-A14 |

|                       |          |  |
|-----------------------|----------|--|
|                       |          | A3 = CC-A37<br>B2 = CC-A13<br>B3 = CC-A20<br>B4 = CC-A40   |
| CC-A38<br>&<br>CC-A39 |          | Original author(s) have withdrawn these haplotype sequences because of an error in the sequence submitted to ACCSTR. This haplotype designation has been removed from the database and will not be assigned to other sequences to avoid confusion. |
| CC-A40                | AY680691 | Roberts et al. 2005. Their haplotype B4.   |
| CC-A41                | EU179458 | Shamblin et al. 2012. Marine Ecology Progress Series 469:145-160   |
| CC-A42                | EF397612 | Revelles <i>et al.</i> 2007. Marine Biology 151:1501-1515  |
| CC-A43                | EF396287 | Shamblin <i>et al.</i> 2011. Marine Biology 158:571-587  |
| CC-A44                | DQ060038 | Reece <i>et al.</i> 2006. Conservation Genetics 7:345-352. Reece <i>et al.</i> incorrectly assigned haplotype number CCA36 to this sequence; CC-A36 had already been assigned to another sequence.   |
| CC-A45                | EU246539 | <a href="mailto:ktmazz@juno.com">unpublished; contact Kristen Mazzarella (ktmazz@juno.com)</a>   |
| CC-A46                | EF687771 | Monzón-Agüello <i>et al.</i> 2009. Journal of Experimental Marine Biology and Ecology 373:79-86  |
| CC-A47                | EU091309 | Monzón-Agüello <i>et al.</i> 2009. Journal of Experimental Marine Biology and Ecology 373:79-86  |
| CC-A48                |          | <a href="mailto:paolo.casale@tiscali.it">Laurent et al. 1998. Molecular Ecology 7:1529-1542. Their haplotype "A6" converted by Paolo Casale (paolo.casale@tiscali.it)</a>  |
| CC-A49                |          | <a href="mailto:mroberts@biol.sc.edu">unpublished, contact Mark Roberts (mroberts@biol.sc.edu)</a>   |
| CC-A50                | EU352258 | Casale <i>et al.</i> 2008. Scientia Marina 72:541-548  |
| CC-A51                | HQ908658 | Shamblin <i>et al.</i> 2012. Marine Ecology Progress Series 469:145-160  |
| CC-A52                | HM366724 | Yilmaz <i>et al.</i> 2011. Biochemical Systematics and Ecology 39:266-276  |
| CC-A53                | HM179462 | Yilmaz <i>et al.</i> 2011. Biochemical Systematics and Ecology 39:266-276  |
| CC-A54                |          | Original author(s) have withdrawn this haplotype sequence because of an error in the sequence submitted to ACCSTR. This haplotype designation has been removed from the database and will not be assigned to other sequences to avoid confusion.   |
| CC-A55                |          | Garofalo <i>et al.</i> 2013. Aquatic Conservation 6:868-884  |

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|-------------------------|----------|--|
| CC-A56<br>and<br>CC-A57 |          | Original author(s) have withdrawn this haplotype sequence because of an error in the sequence submitted to ACCSTR. This haplotype designation has been removed from the database and will not be assigned to other sequences to avoid confusion. |
| CC-A58                  |          | <a href="mailto:noelcaraccio@gmail.com">unpublished, contact Maria Noel Caraccio (noelcaraccio@gmail.com)</a>  |
| CC-A59                  | JF922014 | Shamblin <i>et al.</i> 2012. Marine Ecology Progress Series 469:145-160  |
| CC-A60                  | JF922015 | Shamblin <i>et al.</i> 2012. Marine Ecology Progress Series 469:145-160  |
| CC-A61                  |          | <a href="mailto:peter.dutton@noaa.gov">unpublished, contact LaCasella, Frey, and Dutton (peter.dutton@noaa.gov)</a>  |
| CC-A62                  |          | <a href="mailto:peter.dutton@noaa.gov">unpublished, contact LaCasella, Frey, and Dutton (peter.dutton@noaa.gov)</a>  |
| CC-A63                  | JF957336 | Monzón-Argüello <i>et al.</i> 2012. Journal of the Royal Society Interface 9: 1725-1732  |
| CC-A64                  | JF957337 | Monzón-Argüello <i>et al.</i> 2012. Journal of the Royal Society Interface 9: 1725-1732  |
| CC-A65                  | JF837824 | Clusa <i>et al.</i> 2013. Journal of Experimental Marine Biology and Ecology 439:15-24   |
| CC-A66                  |          | <a href="mailto:luisa.garofalo@uniroma2.it">unpublished, contact Luisa Garofalo (luisa.garofalo@uniroma2.it)</a>   |
| CC-A67                  |          | <a href="mailto:lei_honey4@hotmail.com">unpublished, contact L. V. Hurtado Gomez (lei_honey4@hotmail.com)</a>  |
| CC-A68                  | JN039304 | Saied <i>et al.</i> 2012. Marine Ecology Progress Series 450:207-218   |
| CC-A69                  | KF021626 | Stiebens <i>et al.</i> 2013. Proceedings of the Royal Society B, Biological Sciences 280:20130305  |
| CC-A70                  |          | assigned in error, won't be reused.  |
| CC-A71                  |          | Andrea Splendiani (andreasplendiani@hotmail.com)   |
| CC-A72                  |          | Jérôme Bourjea (Jerome.Bourjea@ifremer.fr)   |
| CC-A73                  |          | Livia Tolve (livia.tolve@stud.unifi.it)  |
| CC-A74                  |          | Erin LaCasella and Peter Dutton (erin.lacasella@noaa.gov)  |
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