

Complexities of coastal shark movements and their implications for management

Conrad W. Speed^{1,2,*}, Iain C. Field³, Mark G. Meekan¹, Corey J. A. Bradshaw^{4,5}

¹Australian Institute of Marine Science, UWA Oceans Institute (MO96), 35 Stirling Highway, Crawley, Western Australia 6009, Australia

²School for Environmental Research, Charles Darwin University, Darwin, Northern Territory 0909, Australia

³Graduate School for the Environment, Macquarie University, Sydney, New South Wales 2109, Australia

⁴The Environment Institute and School of Earth and Environmental Sciences, University of Adelaide, Adelaide, South Australia 5005, Australia

⁵South Australian Research and Development Institute, PO Box 120, Henley Beach, South Australia 5022, Australia

*Email: c.speed@aims.gov.au

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Table S1. Publications and topic of research for coastal shark species. = topic examined; = topic not examined; U: topic not listed in publication; -: multiple species in study; Total (%) = % of total publications considered in the meta-analysis (106)

Species	Paper	Size Class		Sex		Horizontal Movement	Vertical Movement	Segregation & Habitat Partitioning	Habitat Specificity
		Juvenile	Adult	M	F				
<i>C. amblyrhynchos</i>	Economakis & Lobel (1998)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>C. amblyrhynchos</i>	McKibben & Nelson (1986) ^b	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>C. carcharias</i>	Bonfil et al. (2005)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>C. carcharias</i>	Bruce et al. (2006)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>C. carcharias</i>	Weng et al. (2007a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>C. carcharias</i>	Weng et al. (2007b)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>C. carcharias</i>	Goldman & Anderson (1999) ^b	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>C. carcharias</i>	Klimley et al. (2002)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>C. carcharias</i>	Boustany et al. (2002)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	U	U	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>C. carcharias</i>	Domeier & Nasby-Lucas (2008)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<i>C. carcharias</i>	Johnson et al. (2009)	✓	✓	✓	✓	✓	✗	✗	✓
<i>C. galapagensis</i>	Lowe et al. (2006)	✓	✓	✓	✓	✓	✗	✓	✓
<i>C. leucas</i>	Simpfendorfer et al. (2005)	✓	✗	U	U	✗	✗	✓	✓
<i>C. leucas</i>	Thorson (1971)	U	U	U	U	✓	✗	✗	✗
<i>C. leucas</i>	Heupel & Simpfendorfer (2008)	✓	✗	✓	✓	✓	✗	✓	✓
<i>C. leucas</i>	Heithaus et al. (2009a)	✓	✗	✓	✓	✓	✗	✓	✓
<i>C. leucas</i>	McCord & Lamberth (2009)	✗	✓	✗	✓	✓	✗	✗	✗
<i>C. leucas</i>	Yeiser et al. (2008)	✓	✗	✓	✓	✓	✗	✓	✓
<i>C. limbatus</i>	Heupel & Hueter (2002)	✓	✗	✓	✓	✓	✗	✗	✓
<i>C. limbatus</i>	Heupel & Simpfendorfer (2005a)	✓	✗	✓	✓	✓	✗	✗	✗
<i>C. limbatus</i>	Heupel & Hueter (2001)	✓	✗	✓	✓	✓	✗	✗	✗
<i>C. limbatus</i>	Heupel et al. (2003)	✓	✗	✓	✓	✓	✗	✗	✗
<i>C. limbatus</i>	Heupel et al. (2004)	✓	✗	✓	✓	✓	✗	✗	✓
<i>C. limbatus</i>	DeAngelis et al. (2008)	✓	✗	✓	✓	✓	✗	✓	✓
<i>C. maximus</i>	Priede (1984), Priede & Miller (2009)	U	U	U	U	✓	✗	✗	✓
<i>C. maximus</i>	Sims & Quayle (1998)	U	U	U	U	✓	✗	✗	✓
<i>C. maximus</i>	Skomal et al. (2004)	✓	✗	✗	✓	✓	✓	✗	✗
<i>C. maximus</i>	Sims et al. (2005a)	U	U	U	U	✓	✓	✗	✓
<i>C. maximus</i>	Sims et al. (2003)	✓	✗	U	✓	✓	✓	✗	✓
<i>C. maximus</i>	Gore et al. (2008)	✓	✓	U	✓	✓	✓	✗	✓
<i>C. maximus</i>	Skomal et al. (2009)	U	U	U	U	✓	✓	✗	✓
<i>C. maximus</i>	Shepard et al. (2006)	✓	✓	U	✓	✓	✓	✓	✗
<i>C. melanopterus</i>	Papastamatiou et al. (2009) ^b	✓	✓	✓	✓	✓	✗	✓	✓
<i>C. obscurus</i>	Hussey et al. (2009)	✓	✓	✓	✓	✓	✗	✗	✗
<i>C. obscurus</i>	Dudley et al. (2005)	✓	✓	✓	✓	✓	✗	✗	✗
<i>C. perezi</i>	Chapman et al. (2005)	✓	✓	✓	✓	✓	✗	✓	✓
<i>C. perezi</i>	Chapman et al. (2007)	✓	✓	✓	✓	✓	✓	✓	✓

<i>C. perezii</i>	Garla et al. (2006)	✓	✗	✓	✓	✓	✗	✓	✓
<i>C. plumbeus</i>	Rechisky & Wetherbee (2003) ^b	✓	✗	✓	✓	✓	✗	✗	✗
<i>C. plumbeus</i>	Conrath & Musick (2008)	✓	✗	✓	✓	✓	✓	✗	✓
<i>C. plumbeus</i>	Merson & Pratt (2001)	✓	✗	✓	✓	✓	✗	✗	✓
<i>C. plumbeus</i>	Medved & Marshall (1983)	✓	✗	✓	✓	✓	✗	✗	✗
<i>C. taurus</i>	Dicken et al. (2007)	✓	✓	✓	✓	✓	✗	✓	✓
<i>C. taurus</i>	Dicken et al. (2006)	✓	✓	✓	✓	✓	✗	✓	✓
<i>C. taurus</i>	Bansemmer & Bennett (2009)	✓	✓	✓	✓	✓	✗	✓	✓
<i>G. cirratum</i>	Chapman et al. (2005) ^a	✓	✓	✓	✓	✓	✗	✓	✓
<i>G. cuvier</i>	Lowe et al. (2006) ^a	✓	✓	✓	✓	✓	✗	✓	✓
<i>G. cuvier</i>	Heithaus et al. (2002)	✓	✓	✓	✓	✓	✓	✗	✓
<i>G. cuvier</i>	Heithaus et al. (2007)	✗	✓	✓	✓	✓	✗	✗	✗
<i>G. cuvier</i>	Heithaus et al. (2006)	✓	✓	✓	✓	✓	✗	✓	✓
<i>G. cuvier</i>	Tricas (1981)	✗	✓	✗	✓	✓	✓	✗	✗
<i>G. cuvier</i>	Holland et al. (1999)	✓	✓	✓	✓	✓	✓	✗	✗
<i>G. cuvier</i>	Wirsing et al. (2007)	✓	✓	✓	✓	✗	✗	✓	✓
<i>G. cuvier</i>	Heithaus (2001)	✓	✓	✓	✓	✓	✗	✗	✓
<i>G. cuvier</i>	Meyer et al. (2009)	✓	✓	✓	✓	✓	✗	✓	✓
<i>G. galeus</i>	West & Stevens (2001)	✓	✓	✓	✓	✓	✓	✗	✓
<i>G. galeus</i>	Hurst et al. (1999)	✓	✓	✓	✓	✓	✗	✗	✗
<i>G. galeus</i>	Olsen (1954)	✓	✓	✓	✓	✓	✗	✗	✗
<i>H. griseus</i>	Andrews et al. (2007)	✓	✗	✓	✓	✓	✗	✗	✓
<i>H. griseus</i>	Andrews et al. (2009)	✓	✓	✓	✓	✗	✓	✗	✗
<i>H. portusjacksoni</i>	McLaughlin & O'Gower (1971)	✓	✓	✓	✓	✓	✗	✓	✓
<i>H. portusjacksoni</i>	O'Gower (1995)	✓	✓	✓	✓	✓	✗	✗	✓
<i>M. henlei</i>	Campos et al. (2009)	✗	✓	✓	✓	✓	✗	✗	✓
<i>N. brevirostris</i>	DeAngelis et al. (2008) ^a	✓	✗	✓	✓	✓	✗	✓	✓
<i>N. brevirostris</i>	Gruber et al. (1988) ^b	✓	✓	✓	✓	✓	✗	✓	✓

<i>N. brevisrostris</i>	Morrissey & Gruber (1993a)	✓	✗	✓	✓	✓	✗	✗	✓
<i>N. brevisrostris</i>	Morrissey & Gruber (1993b) ^b	✓	✗	✓	✓	✓	✗	✗	✓
<i>N. brevisrostris</i>	Edren & Gruber (2005)	✓	✗	✓	✓	✓	✗	✗	✓
<i>N. brevisrostris</i>	Yeiser et al. (2008) ^a	✓	✗	✓	✓	✓	✗	✓	✓
<i>N. brevisrostris</i>	Wetherbee et al. (2007)	✓	✗	✓	✓	✓	✗	✗	✓
<i>O. halei</i>	Huveneers et al. (2006)	✓	✓	✓	✓	✓	✗	✗	✓
<i>O. ornatus</i>	Carraro & Gladstone (2006)	✓	✓	✓	✓	✗	✗	✗	✓
<i>R. typus</i>	Wilson et al. (2006)	✓	✓	✓	✓	✓	✓	✗	✗
<i>R. typus</i>	Rowat & Gore (2007)	✓	✗	✓	U	✓	✓	✓	✓
<i>R. typus</i>	Eckert & Stewart (2001)	✓	✓	U	✓	✓	✓	✓	✗
<i>R. typus</i>	Rowat et al. (2007)	✓	✗	✓	✓	✓	✓	✗	✗
<i>R. typus</i>	Eckert et al. (2002)	✓	✗	U	U	✓	✗	✗	✗
<i>R. typus</i>	Gunn et al. (1999)	U	U	U	U	✓	✓	✗	✓
<i>R. typus</i>	Graham et al. (2006)	✓	✓	✓	✗	✗	✓	✗	✓
<i>R. typus</i>	Hsu et al. (2006)	✓	✗	✓	✓	✓	✗	✗	✗
<i>R. typus</i>	Brunnschweiler et al. (2009)	U	U	✓	✓	✓	✓	✗	✗
<i>R. terraenovae</i>	Carlson et al. (2008)	✓	✗	✓	✓	✓	✗	✗	✓
<i>S. californica</i>	Standora & Nelson (1977)	U	U	✓	✓	✓	✓	✗	✓
<i>S. guggenheim</i>	Vogler et al. (2008)	✓	✓	✓	✓	✗	✗	✗	✓
<i>S. canicula</i>	Sims et al. (2001)	U	✓	✓	✓	✓	✗	✓	✓
<i>S. canicula</i>	Sims et al. (2006)	✗	✓	✓	✗	✓	✓	✗	✓
<i>S. lewini</i>	Klimley et al. (1988)	✗	✓	U	U	✓	✗	✗	✓
<i>S. lewini</i>	Holland et al. (1993) ^b	✓	✗	U	U	✓	✗	✗	✓
<i>S. lewini</i>	Klimley & Nelson (1984)	✗	✓	✓	✓	✓	✓	✗	✓
<i>S. lewini</i>	Klimley (1993)	✗	✓	✗	✓	✓	✓	✗	✓
<i>S. lewini</i>	Duncan & Holland (2006)	✓	✗	✓	✓	✓	✗	✗	✓
<i>S. lewini</i>	Jorgensen et al. (2009)	✗	✓	✗	✓	✗	✓	✗	✗
<i>S. stellaris</i>	Sims et al. (2005b)	✗	✓	✓	✗	✓	✗	✗	✓

<i>S. microcephalus</i>	Stokesbury et al. (2005)	☒	☑	☑	☑	☑	☑	☒	☑
<i>S. pacificus</i>	Hulbert et al. (2006)	☒	☑	U	U	☑	☑	☒	☑
<i>S. tiburo</i>	Heupel et al. (2006b)	☑	☑	☑	☑	☑	☒	☒	☑
<i>S. tiburo</i>	Ubeda et al. (2009)	☑	☑	☑	☑	☑	☒	☒	☑
<i>T. semifasciata</i>	Ackerman et al. (2000)	☑	☑	☑	☑	☑	☒	☒	☒
<i>T. semifasciata</i>	Hopkins & Cech (2003)	☑	☑	☑	☑	☑	☒	☒	☑
<i>T. semifasciata</i>	Hight & Lowe (2007)	☒	☑	☒	☑	☑	☒	☒	☑
<i>T. semifasciata</i>	Ebert & Ebert (2005)	☒	☑	☑	☑	☒	☒	☑	☑
<i>T. semifasciata</i>	Carlisle & Starr (2009) ^b	☑	☑	☒	☑	☑	☒	☒	☑
<i>Multi-species</i>	Stevens (1984)	-	-	-	-	☑	☒	☒	☑
<i>Multi-species</i>	Pikitch et al. (2005)	-	-	-	-	☑	☒	☑	☑
<i>Multi-species</i>	Nelson & Johnson (1980)	-	-	-	-	☑	☒	☒	☑
<i>Multi-species</i>	White & Potter (2004)	-	-	-	-	☑	☒	☑	☑
<i>Multi-species</i>	Wiley & Simpfendorfer (2007)	-	-	-	-	☑	☒	☑	☑
<i>Multi-species</i>	Simpfendorfer & Milward (1993)	-	-	-	-	☒	☒	☒	☑
<i>Multi-species</i>	Yokota & Lessa (2006)	-	-	-	-	☒	☒	☒	☑
<i>Multi-species</i>	Stevens et al. (2000b)	-	-	-	-	☑	☒	☑	☑
Total (Percentage)		67.92	55.66	69.81	76.42	90.57	33.02	27.36	74.53

^aThese studies included 2 species, and therefore have only been counted once in the final percentages

^bThese studies were the source of data used to model the relationship between body length and monitoring time on home range size