

## Peer-reviewed Publications

### 2014

Fertig B, Carruthers TJB, Dennison WC (2014) Oyster delta N-15 as a Bioindicator of Potential Wastewater and Poultry Farming Impacts and Degraded Water Quality in a Subestuary of Chesapeake Bay. *J. Coast. Res.* 30(5):881–892

### 2013

Carruthers TJB, Beckert K, Schupp CA, Saxby TA, Kumer JP, Thomas JE, Sturgis B, Dennison WC, Williams M, Fisher T, Zimmerman CS (2013) Improving management of a mid-Atlantic coastal barrier island through assessment of habitat condition. *Estuar. Coast. Shelf Sci.* 116:74–86

Fertig BM, Carruthers TJB, Dennison WC (2013) Oyster deltaN-15 as a Bioindicator of Potential Wastewater and Poultry Farming Impacts and Degraded Water Quality in a Subestuary of Chesapeake Bay. *J. Coast. Res.* In Press

Fertig BM, Oâ€™Neil JM, Beckert KA, Cain CJ, Needham DM, Carruthers TJB, Dennison WC (2013) Elucidating terrestrial nutrient sources to a coastal lagoon, Chincoteague Bay, Maryland, USA. *Estuar. Coast. Shelf Sci.* 116:1–10

Hills T, Carruthers TJB, Chape S, Donohoe P (2013) A social and ecological imperative for ecosystem-based adaptation to climate change in the Pacific Islands. *Sustain Sci* In press

Schupp CA, Winn NT, Pearl TL, Kumer JP, Carruthers TJB, Zimmerman CS (2013) Restoration of overwash processes creates piping plover (*Charadrius melodus*) habitat on a barrier island (Assateague Island, Maryland). *Estuar. Coast. Shelf Sci.* 116:11–20

### 2012

Carruthers TJB, Carter SL, Lookingbill TR, Florkowski LN, Hawkey JM, Dennison WC (2012) A Habitat-Based Framework for Communicating Natural Resource Condition. *ISRN Ecology* 2012:13pp

Kendrick GA, Waycott M, Carruthers TJB, Cambridge MLH R., Krauss SL, Lavery PS, Les DH, Lowe RJ, Mascaro i Vidal O, Ooi JLS, Orth RJ, Rivers DO, Ruiz-Montoya L, Sinclair EA, Statton J, van Dijk JK, Verduin JJ (2012) The Central Role of Dispersal in the Maintenance and Persistence of Seagrass Populations. *Bioscience* 62(1):56–65

Murray L, Gurbisz C, Gibson D, Woerner JL, Carruthers TJB (2012) Collaborative partnerships help bridge the gap between science and education. *Eos Trans. AGU* 93(49):510

Newton A, Carruthers TJB, Icely J (2012) The coastal syndromes and hotspots on the coast. *Estuar. Coast. Shelf Sci.* 96:39–47

Schupp CA, Winn NT, Pearl TL, Kumer JP, Carruthers TJB, Zimmerman CS (2012) Restoration of overwash processes creates piping plover (*Charadrius melodus*) habitat on a barrier island (Assateague Island, Maryland). *Estuar. Coast. Shelf Sci.* in press

## 2011

Short FT, Polidoro B, Livingstone SR, Carpenter KE, Bandeira S, Bujang JS, Calumpong HP, Carruthers TJB, Coles RG, Dennison WC, Erftemeijer PLA, Fortes MD, Freeman AS, Jagtap TG, Kamal AHM, Kendrick GA, Kenworthy WJ, La Nafie YA, Nasution IM, Orth RJ, Prathep A, Sanciangco JC, van Tussenbroek B, Vergara SG, Waycott M, Zieman JC (2011) Extinction risk assessment of the world's seagrass species. *Biol. Conserv.* 144(7):1961–1971

## 2010

Fertig BM, Carruthers TJB, Dennison WC, Fertig EJ, Altabet MA (2010) Eastern oyster (*Crassostrea virginica*)  $\delta^{15}\text{N}$  as a bioindicator of nitrogen sources: Observations and modeling. *Mar. Poll. Bull.* 60(8):1288–1298

Orth RJ, Williams MR, Marion SR, Wilcox DJ, Carruthers TJB, Moore KA, Kemp WM, Dennison WC, Rybicki N, Bergstrom P, Batiuk RA (2010) Long-Term Trends in Submersed Aquatic Vegetation (SAV) in Chesapeake Bay, USA, Related to Water Quality. *Estuaries Coasts* 33(5):1144–1163

## 2009

Fertig BM, Carruthers TJB, Dennison WC, Jones AB, Pantus F, Longstaff B (2009) Oyster and Macroalgae Bioindicators Detect Elevated  $\delta^{15}\text{N}$  in Maryland's Coastal Bays. *Estuaries Coasts* 32(4):773–786

Ksiazek K, McGlathery K, Reynolds L, Schwartzchild A, Wilkerson C, Carruthers TJB, Gurbitsz C, Woerner JL, Murray L (2009) Learning about Coastal Trends: what is the story with seagrasses... and how does it affect me? *Science Activities* 46(3):27–31

Waycott M, Duarte CM, Carruthers TJB, Orth RJ, Dennison WC, Olyarnik S, Calladine A, Fourqurean JW, Heck KLJ, Hughes AR, Kendrick GA, Kenworthy WJ, Short FT, Williams SL (2009) Accelerating loss of seagrasses across the globe threatens coastal ecosystems. *PNAS* 106(30):12377–12381

## 2008

Duarte CM, Dennison WC, Orth RJ, Carruthers TJB (2008) The charisma of coastal ecosystems: addressing the imbalance. *Estuaries and Coasts* 31(2):233–238

Heck KL, Carruthers TJB, Duarte CM, Hughes AR, Kendrick G, Orth RJ, Williams SW (2008) Trophic Transfers from Seagrass Meadows Subsidize Diverse Marine and Terrestrial Consumers. *Ecosystems* 11(7):1198–1210

## 2007

Carruthers TJB, Dennison WC, Kendrick GA, Waycott M, Walker DI, Cambridge ML (2007) Seagrasses of south-west Australia: A conceptual synthesis of the world's most diverse and extensive seagrass meadows. *JEMBE* 350:21–45

Carter SL, Mora-Bourgeois G, Lookingbill TR, Carruthers TJB, Dennison WC (2007) The challenge of

communicating monitoring results to effect change. *The George Wright Forum* 24(2):48–58

Dennison WC, Lookingbill TR, Carruthers TJB, Hawkey JM, Carter SM (2007) An eye-opening approach to developing and communicating integrated environmental assessments. *Front. Ecol. Environ.* 5(6):307–314

Grinham AR, Carruthers TJB, Fisher PL, Udy JW, Dennison WC (2007) Accurately measuring the abundance of benthic microalgae in spatially variable habitats. *Limnol. Oceanogr. Methods* 5:119–125

Short F, Carruthers TJB, Dennison WC, Waycott M (2007) Global seagrass distribution and diversity: A bioregional model. *JEMBE* 350:3–20

Wazniak CE, Hall MR, Carruthers TJB, Sturgis B, Dennison WC, Orth RJ (2007) Linking water quality to living resources in a mid-Atlantic lagoon system, USA. *Ecol. Apps.* 17(5):S64–S78

## 2006

Orth RJ, Carruthers TJB, Dennison WC, Duarte CM, Fourqurean JW, Heck KLJ, Hughes AR, Kendrick GA, Kenworthy WJ, Olyarnik S, Short FT, Waycott M, Williams SL (2006) A Global Crisis for Seagrass Ecosystems. *Bioscience* 56(12):987–996

## 2005

Carruthers TJB, van Tussenbroek BI, Dennison WC (2005) Influence of submarine springs and wastewater on nutrient dynamics of Caribbean seagrass meadows. *Estuarine Coastal and Shelf Science* 64(2-3):191–199

Carruthers TJB, Barnes PAG, Jacome GE, Fourqurean JW (2005) Lagoon scale processes in a coastally influenced Caribbean system: Implications for the seagrass *Thalassia testudinum*. *Caribb. J. Sci.* 41(3):441–455

## 2002

Carruthers TJB, Dennison WC, Longstaff BJ, Waycott M, Abal EG, McKenzie LJ, Long WJL (2002) Seagrass habitats of northeast Australia: Models of key processes and controls. *Bulletin of Marine Science* 71(3):1153–1169

Mellors J, Marsh H, Carruthers TJB, Waycott M (2002) Testing the sediment-trapping paradigm of seagrass: do seagrasses influence nutrient status and sediment structure in tropical intertidal environments? *Bulletin of Marine Science* 71(3):1215–1226

## 1999

Carruthers TJB (1999) Within canopy growth strategies of the two seagrass species *Amphibolis griffithii* (J. Black) den Hartog and *Amphibolis antarctica* (Labillardiere) Sonder & Ascherson ex Ascherson. *The Seagrass Flora and Fauna of Rottnest Island, Western Australia, 1996* 41–50

Carruthers TJB, Walker DI (1999) Sensitivity of transects across a depth gradient to measuring changes in aerial coverage and abundance of *Ruppia megacarpa* Mason. *Aquat. Bot.* 65:281–292

Carruthers TJB, Walker DI, Kendrick GA (1999) Abundance of *Ruppia megacarpa* Mason in a seasonally variable estuary. *ECSS* 48:497–509

1997

Carruthers TJB, Walker DI (1997) Light climate and energy flow in the seagrass canopy of *Amphibolis griffithii* (J.M. Black) den Hartog. *Oecologia* 109:335–341

1996

Walker DI, Carruthers TJB, Morrison PF, McComb AJ (1996) Experimental manipulation of canopy density in a temperate seagrass (*Amphibolis griffithii* (Black) den Hartog) meadow: effects on sediments. *Seagrass Biology: proceedings of an international workshop Rottneest Island, 1996* 117–122

1993

Carruthers TJB, Walder DI, Huisman JM (1993) Culture studies on two morphological types of *Caulerpa* (Chlorophyta) from Perth, Western Australia, with a description of a new species. *Bot. Mar.* 36:589–596

## Books

2010

Longstaff BJ, Carruthers TJB, Dennison WC, Lookingbill TR, Hawkey JM, Thomas JE, Wicks EC, Woerner JL (2010) *Integrating and Applying Science: A practical handbook for effective coastal ecosystem assessment*. IAN Press, Cambridge, MD, 244 pp

2009

Dennison WC, Thomas JE, Cain CJ, Carruthers TJB, Hall MR, Jesien RV, Wazniak CE, Wilson DE (2009) *Shifting Sands: Environmental and cultural change in Maryland's Coastal Bays*. IAN Press, Cambridge, MD, 396 pp

2006

Thomas JE, Saxby TA, Jones AB, Carruthers TJB, Abal EG, Dennison WC (2006) *Communicating Science Effectively: A Practical Handbook for Integrating Visual Elements*. IWA Publishing, London, 136 pp

## Book Contributions

2010

Kimmel DG, Townsend H, Carruthers TJB, Fertig BM (2010) Chapter 8: Environmental statistics: balancing simplicity and explanatory power. In: Longstaff BJ, Carruthers TJB, Dennison WC, Lookingbill TR, Hawkey JM, Thomas JE, Wicks EC, Woerner JL (eds) *Integrating and Applying*

Science: A handbook for effective coastal ecosystem assessment. IAN Press, Cambridge, MD, p 113–132

Lookingbill T, Carruthers TJB, Testa JM, Nuttle WK, Shenk G (2010) Chapter 9: Environmental models: providing synthesis, analysis, simulation, and prediction. In: Longstaff BJ, Carruthers TJB, Dennison WC, Lookingbill TR, Hawkey JM, Thomas JE, Wicks EC, Woerner JL (eds) Integrating and Applying Science: A handbook for effective coastal ecosystem assessment. IAN Press, Cambridge, MD, p 133–150

Williams MR, Longstaff BJ, Wicks EC, Carruthers TJB, Florkowski LN (2010) Chapter 6: Ecological report cards: integrating indicators into report cards. In: Longstaff BJ, Carruthers TJB, Dennison WC, Lookingbill TR, Hawkey JM, Thomas JE, Wicks EC, Woerner JL (eds) Integrating and Applying Science: A handbook for effective coastal ecosystem assessment. IAN Press, Cambridge, MD, p 79–96

## 2009

Dennison WC, Cain CJ, Carruthers TJB, Hall MR, Jesien RV, Thomas JE, Wazniak CE, Wilson DE (2009) Conclusions and Recommendations. In: Dennison WC, Thomas JE, Cain CJ, Carruthers TJB, Hall MR, Jesien RV, Wazniak CE, Wilson DE (eds) Shifting Sands: Environmental and cultural change in Maryland's Coastal Bays. IAN Press, Cambridge, MD, p 1–14

Wazniak CE, Carruthers TJB, Dennison WC, Hall MR, Thomas JE (2009) Ecosystem Health Assessment. In: Dennison WC, Thomas JE, Cain CJ, Carruthers TJB, Hall MR, Jesien RV, Wazniak CE, Wilson DE (eds) Shifting Sands: Environmental and cultural change in Maryland's Coastal Bays. IAN Press, Cambridge, MD, p 15–20

Wazniak CE, Hall MR, Bailey EM, Boward DM, Boynton WR, Bratton JF, Carruthers TJB, Chalmers RJ, Cole LW, Cornwell JC, Fertig BM, Glibert PM, Jones AB, Jordan TE, McCoy J, McGinty M, Shedlock RJ, Sherwell J, Sturgis RB, Thomas JE, Trice TM, Wells DV (2009) Water Quality Responses to Nutrients. In: Dennison WC, Thomas JE, Cain CJ, Carruthers TJB, Hall MR, Jesien RV, Wazniak CE, Wilson DE (eds) Shifting Sands: Environmental and cultural change in Maryland's Coastal Bays. IAN Press, Cambridge, MD, p 249–292

Boward DM, Carruthers TJB, Chalmers RJ, Clearwater DH, Dennison WC, Hairston-Strang AB, Hall MR, Irani FM, Jesien RV, Knapp WM, Koch EW, Kyde KL, Luscher AE, Naylor MD, Orth RJ, Spaur CC, Tarnowski ML, Wicks EC, Zimmerman CS (2009) Habitats of the Coastal Bays & Watershed. In: Dennison WC, Thomas JE, Cain CJ, Carruthers TJB, Hall MR, Jesien RV, Wazniak CE, Wilson DE (eds) Shifting Sands: Environmental and cultural change in Maryland's Coastal Bays. IAN Press, Cambridge, MD, p 345–390

## 2004

Dennison WC, Carruthers TJB, Thomas JE, Glibert PM (2004) A comparison of issues and management approaches in Moreton Bay, Australia and Chesapeake Bay, USA. In: Wong MH (ed) Developments in Ecosystems Developments in Ecosystems volume 1: Wetlands Ecosystems in Asia: Function and Management. p 3–25

## 2001

Carruthers TJB, Longstaff BJ, Dennison WC, Abal EG, Aoi K (2001) Measurement of light penetration in relation to seagrass. In: Short F, Coles R (eds) Global Seagrass Methods. Elsevier, p 369–392

1999

Carruthers TJB (1999) Within canopy growth strategies of the two seagrass species *Amphibolis griffithii* (J. Black) den Hartog and *Amphibolis antarctica* (Labillardiere) Sonder & Ascherson ex Ascherson. In: Walker DI, Wells FE (eds) *The Seagrass Flora and Fauna of Rottnest Island, Western Australia*. Western Australian Museum, Perth, Australia, p 41–50