

Student Conference Proceedings, Abstracts, and Presentations
(78 presentations, 16 awards, peer reviewed publications with PI publications)

Anthony Shook, Julien Clifford, Scott Duf, James Rizzo and Philippe Tissot, “Development of an App for the Geolocation of Coastal Benchmarks”, poster presentation at 13th TAMUCC/Sigma Xi Undergraduate Research Symposium, October 12th, Corpus Christi, TX.

Wenbo Zhu, Mike Rink and Philippe Tissot: “An Automated Method for the Gap Filling of Water Level Time Series”, oral presentation at 13th TAMUCC/Sigma Xi Undergraduate Research Symposium, October 12th, Corpus Christi, TX.

Julien Clifford, Francesca Picarazzi and Philippe Tissot: “Transit Time: Mobile Device Based Visualization and Prediction for Navigation”, oral presentation at 2013 TAMUCC Undergraduate Research Symposium, March 2nd, Corpus Christi, TX (this presentation won first prize in the oral competition and the “Most Innovative with the Greatest Potential for Impact” award sponsored by the Honors Program).

Hoang Nguyen, Wenbo Zhu and Philippe Tissot: “Detection of Drift in Water Level Time Series”, poster presentation at 2013 TAMUCC Undergraduate Research Symposium, March 2nd, Corpus Christi, TX.

Whitney Rutledge, Waylon Collins, and Philippe Tissot: “A Sea Surface Temperature Neural Network model for the Prediction of Cloud to Surface Lightning”, poster presentation at 2013 TAMUCC Undergraduate Research Symposium, March 2nd, Corpus Christi, TX.

Wenbo Zhu, Hoang Nguyen and Philippe Tissot: “Model Comparison for Improving Water Level Data Quality”, poster presentation at 2013 TAMUCC Undergraduate Research Symposium, March 2nd, Corpus Christi, TX.

Francesca Picarazzi, Julien Clifford and Scott Duff: “Wonderful Texas: An App for Visualization of Wind Data Along the Texas Coast”, poster presentation at 2013 TAMUCC Undergraduate Research Symposium, March 2nd, Corpus Christi, TX. (this presentation won the “Most Innovative with the Greatest Potential for Impact” award for poster presentations sponsored by the Honors Program).

Natalya Warner, Blair Sterba-Boatwright, Philippe Tissot and Gary Jeffress,: “Estimated Increase in Inundation Probability with Confidence Intervals for Texas and Florida stations”, oral presentation at the 11th Symposium on the Coastal Environment, part of the AMS 93rd Annual Meeting, 6-10 January 2013 in Austin, TX

Sergey Reid, Philippe Tissot & Deidre Williams: “Inundation Analysis Using GIS and Hydrodynamic Modeling”, oral presentation at the 11th Symposium on the Coastal Environment, part of the AMS 93rd Annual Meeting, 6-10 January 2013 in Austin, TX, <https://ams.confex.com/ams/93Annual/webprogram/Paper219768.html>

Natalya Warner, Blair Sterba-Boatwright, Philippe Tissot and Gary Jeffress, “Estimated Increase in Inundation Probability with Confidence Intervals for Pensacola, Florida and Key West, Florida” Proceedings of Oceans’ 12, 120517-057, 2012.

http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6404881&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D6404881)

Natalya Warner, Blair Sterba-Boatwright, Philippe Tissot and Gary Jeffress, “Estimated Increase in Inundation Probability with Confidence Intervals for Pensacola, Florida and Key West, Florida” oral presentation at Oceans’ 12, Hampton Beach, Virginia Oct. 14-19, 2012.

Boris Radosavljević, James C. Gibeaut and Philippe Tissot, “Sea-Level Rise: Estuarine Wetlands of Mustang Island at Imminent Risk of Submergence”, poster presentation EGU2012-6554 (session HS10.2/GM8.2), EGU General Assembly 2012, Vienna, Austria, April 22-27, 2012. <http://meetingorganizer.copernicus.org/EGU2012/EGU2012-6554-2.pdf>

Morgan Matchett and Philippe Tissot, “The Effects of Adding Wave Data to a Water Level Predictive Model”, poster presentation at the 11th Annual AMS Student Conference and Career Fair, January 22, 2012, New Orleans, Louisiana.

Morgan Matchett and Philippe Tissot, “The Effects of Adding Wave Data to a Water Level Predictive Model”, presentation at the LSU Triple Ex Symposium for Undergraduate Research, November 4, 2011, Baton Rouge, Louisiana.

Natalya Warner, Blair Sterba-Boatwright, Philippe Tissot and Gary Jeffress, “Storms, Sea Level Rise and Estimated Increase in Inundation Probability with Confidence Intervals for Galveston, Texas” oral presentation at the Twelfth International Conference on Estuarine & Coastal Modeling, St. Augustine, FL, Nov. 7-9, 2011.

Sergey Reid and Philippe Tissot, “Hydrodynamic Model Implementation for Navigation Support in Corpus Christi Bay” poster presentation at the Twelfth International Conference on Estuarine & Coastal Modeling, St. Augustine, FL, Nov. 7-9, 2011.

Whitney Rutledge and Philippe Tissot, “A Water Level Prediction Model for the Port of Baltimore” poster presentation at the Twelfth International Conference on Estuarine & Coastal Modeling, St. Augustine, FL, Nov. 7-9, 2011.

Julien Clifford, Cristian Romo, Sergey Reid and Philippe Tissot, “Development and Implementation of Mobile Applications for Access and Visualization of Coastal Predictions” poster presentation at the Twelfth International Conference on Estuarine & Coastal Modeling, St. Augustine, FL, Nov. 7-9, 2011.

Whitney Rutledge and Philippe Tissot, “A Water Level Prediction Model for the Port of Baltimore” oral presentation at the Eleventh Texas A&M University-Corpus Christi Undergraduate Research Symposium, Corpus Christi, Tx, Sept. 23, 2011.

Julien Clifford, Cristian Romo, Sergey Reid and Philippe Tissot, “Development and Implementation of Mobile Applications for Access and Visualization of Coastal Predictions”, oral presentation at the Eleventh Texas A&M University-Corpus Christi Undergraduate Research Symposium, Corpus Christi, Tx, Sept. 23, 2011. (presentation won 2nd place in the oral presentations competition).

Morgan Matchett and Philippe Tissot, “Effects of Adding Wave Data to a Water Level Predictive Model”, presentation at the Ninth Annual SURF Symposium, August 4, 2011, Corpus Christi, Texas.

Jennifer Kennedy, Gary Jeffress & Philippe Tissot, “Coastal Bend and State of Texas Collaborative Consortium of Streaming Atmospheric and Oceanographic Environmental Data”, oral presentation at the Fifth Annual Graduate Scholarly Works Symposium, Texas A&M University-Corpus Christi, Corpus Christi, TX, Apr. 22, 2011.

Sergey Reid, Yelena Nevel, James Davis and Philippe Tissot, “Hydrodynamic Model Comparison for Corpus Christi Bay”, poster presentation at the American Meteorological Society Tenth Annual Student Conference, Seattle, WA, January 22-23, 2011. (<http://ams.confex.com/ams/91Annual/webprogram/Paper187856.html>)

Sergey Reid, Yelena Nevel and Philippe Tissot, “Hydrodynamic Model Comparison for Corpus Christi Bay”, oral presentation at the 10th TAMUCC Undergraduate Research Symposium, Corpus Christi, TX, September 25, 2010 (presentation won 1st place in the oral presentations competition).

Domingo Hiracheta, Sergey Reid and Philippe Tissot, “Potential for Application of ANN Water Level Prediction Models Around the Gulf of Mexico”, Poster presentation at the 10th TAMUCC Undergraduate Research Symposium, Corpus Christi, TX, September 25, 2010 (presentation won honorable mention in the poster competition i.e. 4th place).

Ijeoma C. Ekeh, Sergey Reid and Philippe Tissot, “Coastal Modeling System Grid Optimization for Corpus Christi Bay”, presentation at the Eight Annual SURF Symposium, July 29, 2010, Corpus Christi, Texas.

Roberto Chavez, Philippe Tissot, Waylon Collins and Oliver Probst “On the accuracy of numerical weather prediction models for wind speed predictions along the Texas Gulf coast”, presentation at the 2010 American Wind Energy Association Windpower 2010 Conference, May 23-26, 2010, Dallas, Texas.

Boris Radosavljević, James C. Gibeaut and Philippe Tissot, “Vertical Accretion Rates in Estuarine Wetlands Using Cs-137, Mustang Island, TX”, poster presentation at the 2010 Texas Bays and Estuaries Conference, April 15-16, Port Aransas, Texas.

Natalya Warner, Philippe Tissot, Blair Sterba-Boatwright, and Gary Jeffress, “Comparison of Extreme Value Statistical Distributions and Implications for Galveston Pier 21”, Poster presentation at the 2010 Sea Level Rise Conference, Corpus Christi, Texas, March 1-3, 2010.

Sergey Reid and Philippe Tissot, “Performance of a Water Level Predictive Model at Freeport, Texas”, Poster presentation at the 9th TAMUCC Undergraduate Research Symposium, Corpus Christi, Oct.10, 2009. (this presentation was awarded 2nd place in the poster competition).

Anthony S. Reisinger, Philippe Tissot, David W. Hicks, and James C. Gibeaut, "A neural network spatial model for salinity in Bahia Grande", presentation at the 2009 Texas Bays and Estuaries Conference, April 28-30, Port Aransas, Texas.

Angelica Villarreal, P.Tissot and Richard Hay, "Analysis and verification of NEXRAD precipitation estimates for the Texas Coastal Bend", Poster presentation at the 8th American Meteorological Society Student Conference, Phoenix, Arizona, January 10,11, 2009.

Robyn Ball, P. Tissot, B. Zimmer, and B. Sterba-Boatwright, "Comparison of random forest, artificial neural network, and multi-linear regression: a water temperature prediction case", Proceedings of the Seventh Conference on Artificial Intelligence and its Applications to the Environmental Sciences, January 11-15, 2009, Phoenix, Arizona.

Angelica Villarreal, P.Tissot and Richard Hay, "Analysis of NEXRAD Precipitation Estimates for the Texas Coastal Bend", Oral presentation at the 8th TAMUCC Undergraduate Research Symposium, Corpus Christi, Nov.1, 2008 (awarded 2nd place).

Brendan Hughes, Felischa Cullins, Jon Brandt, Benjamin Draper and Philippe Tissot "Transport of Radionuclides at the Bargmann Uranium Mine: Assessment and WEPP Modeling", GSA Abstracts with Programs Vol. 40, No. 2, poster presentation at the 43rd Annual Meeting of the Northeastern Section of the Geological Society of America, 27-29 March 2008, Buffalo, NY.

Brendan Hughes, Felischa Cullins, Jon Brandt Benjamin Draper, and Philippe Tissot, "Transport of Radionuclides at the Bargmann Uranium Mine: Assessment and WEPP Modeling", Poster presentation at the 2007 Sigma Xi Student Research Conference, Nov. 2-3, Orlando, Florida.

Felischa Cullins, Philippe Tissot, and Jon Brandt, "Transport Mechanism and Range of Radionuclides from Former Uranium Mines", Poster presentation at the 2007 Sigma Xi Student Research Conference, Nov. 2-3, Orlando, Florida.

Jenny Rodriguez and Philippe Tissot, "Navigational Safety in Texas: A comparative study of causes of accidents between Texas, Florida, and the rest of the United States", presentation at the Quarterly meeting of the Texas US Coast Guard Auxiliary, August 11, 2007, Canyon Lake, Texas.

Benjamin Draper, Felischa Cullins, Brendan Hughes and Philippe Tissot, "The effect of Water on Radon Exhalation from South Texas Uranium Mine Soil", TAMUCC SURF Symposium, Friday August 3, 2007, Corpus Christi, Texas.

Brendan Hughes, Felischa Cullins, Jon Brandt Benjamin Draper, and Philippe Tissot "Transport of Radionuclides at the Bargmann Uranium Mine: Assessment and WEPP modeling", TAMUCC SURF Symposium, Friday August 3, 2007, Corpus Christi, Texas.

Robyn Ball, Philippe E. Tissot, John Adams, G. Beate Zimmer, and Blair Sterba-Boatwright, "Artificial Neural Network Predictive Water Temperature Modeling of Cold Water Events in the Laguna Madre", presentation at the Graduate Student Association Research Symposium, Corpus Christi, Texas. 21 April 2007.

Robyn Ball, Philippe Tissot, Beate Zimmer, Blair Sterba Boatwright "ANN Predictive Water Temperature Modeling of Cold Water Events in a Shallow Lagoon", proceedings of the 5th Conference on Artificial Intelligence Applications to Environmental Science, AMS 87th Annual Meeting, 14-18 January 2007 in San Antonio, TX. (<http://ams.confex.com/ams/pdfpapers/116711.pdf>)

Felischa Cullins, Philippe Tissot, Jon Brandt, and Rick Hay, "Historical Transport of NORM in the Mabel New-Superior (MNS) Mine", Poster presentation at the Texas A&M University-Corpus Christi sixth Annual Undergraduate Research Symposium, Corpus Christi, Texas, October 7, 2006. (This presentation won third place in the overall competition).

Robyn Ball, "Understanding Conditions that Precede a Fish Kill in the Laguna Madre", presentation at the 14th Annual South Texas, Mathematics Consortium, Texas A&M University-Corpus Christi, February 25th, 2006, Corpus Christi, Texas.

Dawn Lalmansingh, P.E. Tissot and Richard Hayes, "Neural Network Modeling of Spring Levels Linked to a Karst Aquifer: Case Study of the Comal Springs", presented at the National Groundwater Association 2005 Ground Water Summit, San Antonio, Texas, April 17-20.

K. Tai, P. E. Tissot, R. Hay and B. Sterba-Boatwright, "Study of Spatial and Temporal Correlations Between Spring Flows and Precipitations for a Central Texas Aquifer", presented at the National Groundwater Association 2005 Ground Water Summit, San Antonio, Texas, April 17-20.

D. Prouty and P.E. Tissot, "Using Artificial Neural Networks for Predicting Storm Surge Propagation in the North Sea and the Thames Estuary" presented at the 4th conference on the Application of Artificial Intelligence to Environmental Science, San Diego, California, January 9-13, 2005.

K. Tai, P. E. Tissot, R. Hay and B. Sterba-Boatwright, "Study of Spatial and Temporal Correlations between Spring Flows and Precipitations for a Central Texas Aquifer", presented at the 2004 National Sigma Xi Student Research Conference, Montreal, Canada, November 12-13, 2004. Awarded a gold ribbon for excellent poster presentation*.

N. Cook, P.E. Tissot and J. Mott, "ANN Forecasting of Indicator Bacteria Counts in Corpus Christi Bay", presented at the 2004 National Sigma Xi Student Research Conference, Montreal, Canada, November 12-13, 2004. Awarded a gold ribbon for excellent poster presentation*.

K. Duraisamy and P.E. Tissot, "Cross Station Now-casting Using Artificial Neural Networks in a Shallow Embayment", poster presentation at the 2nd Annual TAMUS Pathways Research Symposium, Corpus Christi, Texas October 16, 2004.

K. Tai, P. E. Tissot, R. Hay and B. Sterba-Boatwright, "Study of Spatial and Temporal Correlations between Spring Flows and Precipitations for a Central Texas Aquifer", poster presentation at the 2nd Annual TAMUS Pathways Research Symposium, Corpus Christi, Texas October 16, 2004.

K. Tai, P. E. Tissot, R. Hay and B. Sterba-Boatwright, "Study of Spatial and Temporal Correlations between Spring Flows and Precipitations for a Central Texas Aquifer", Texas A&M University-Corpus Christi Fourth Undergraduate Research Seminar, Corpus Christi, Texas, October 9, 2004. (This presentation won third place in the oral presentation competition).

I. Arreola, P. E. Tissot, and J. Adams, "Historical Assessment of NORM in Brine Water Discharge through Sediment Core Analysis", poster presentation at the 2nd Annual TAMUS Pathways Research Symposium, Corpus Christi, Texas October 16, 2004.

I. Arreola, P. E. Tissot, and J. Adams, "Historical Assessment of NORM in Brine Water Discharge through Sediment Core Analysis", poster presentation at the Texas A&M University-Corpus Christi Fourth Undergraduate Research Seminar, Corpus Christi, Texas, October 9, 2004.

M. Beaman and P.E. Tissot, "Radon in Groundwater of the South Texas Uranium District", accepted for presentation at the 2004 ESRI Education User Conference, San Diego, California, August 9-13, 2004.

Dawn Lalmansingh, P.E. Tissot and Richard Hayes, "Neural Network Modeling of Spring Levels Linked to a Karst Aquifer: Case Study of the Comal Springs", 2004 Meeting of the Texas Section of the Mathematical Association of America, Corpus Christi, Texas, April 1-3, 2004.

A. Mostella, A.L. Sadovskii, S. Duff, P. Michaud, P. Tissot, C. Steidley, "Comparison of Gap Interpolation Methodologies for Water Level Time Series using Perl/PDL", presentation at the XIV International Symposium on Mathematical Methods Applied to the Sciences, San Pedro, Costa Rica, February 18, 2004.

Z. Bowles, P.E. Tissot, P. Michaud, A. Sadovskii, S. Duff and C. Steidley, "Engineered Training Sets: Enhancing the Learning Power of Artificial Neural Networks for Water Level Forecasts", XIVth International Symposium on Mathematical Methods Applied to the Sciences (XIV SIMMAC), San Jose, Costa Rica, February 17-20, 2004.

M.H. Willingham, C.S. Smith, B.A. Dolan, P.E. Tissot, "Evaluation of the Surface Transport of NORM from Former Uranium Mines through Sediment Core Analysis", abstracts of the Society for Environmental Toxicology and Chemistry (SETAC) 24th Annual Meeting, Austin, Texas, November 9-13, p. 280, 2003.

B.A. Dolan, M.H. Willingham, P.E. Tissot, "Meteorological Impact on Soil Radon Exhalation in the Context of a Former South Texas Uranium Mine" abstracts of the Society for Environmental Toxicology and Chemistry (SETAC) 24th Annual Meeting, Austin, Texas, November 9-13, p. 218, 2003.

B.A. Dolan, M.H. Willingham, J. Brandt and P.E. Tissot, "Impact of meteorological conditions on soil radon exhalation within the context of a former south Texas uranium mine", Texas A&M University-Corpus Christi, 2003 Undergraduate Research Symposium, Corpus Christi, Texas, November 8, 2003.

M.H. Willingham, C. Smith, B. A. Dolan and P.E. Tissot, "Evaluation of the Surface Transport of NORM from Former Uranium Mines Through Sediment Core Analysis", Texas A&M University-Corpus Christi, 2003 Undergraduate Research Seminar, Corpus Christi, Texas, November 8, 2003. (This presentation won second place in the oral presentation competition).

J. Telleria, M.H. Willingham, B. Newgard, P. E. Tissot, "Contamination of Mexican Hollow? Assessment of Radionuclide Transport from Open-Pit Uranium Mines through Creek Bed Sediment Analysis", presentation at the 2003 National Sigma Xi Student Research Conference, Los Angeles, California, November 16, 2003.

B. Newgard, J. Telleria, M. Willingham, P. Tissot, "Assessment of Radionuclide Concentration and Radiochronological Dating of Sediments in Oso Bay, Texas", presentation at the 2003 Summer Undergraduate Research Focus Symposium, Texas A&M University-Corpus Christi, Texas, August 8, 2003.

J. Telleria, M. Willingham, P. Tissot, B. Newgard, C. Smith, "The Question of Mexican Hollow Assessment of Radionuclide Transport from Open-Pit Uranium Mines", presentation at the 2003 Summer Undergraduate Research Focus Symposium, Texas A&M University-Corpus Christi, Texas, August 8, 2003.

B.A. Dolan, M.H. Willingham, P.E. Tissot, "Impact of Meteorological Conditions on Soil Radon Exhalation within the Context of a Former Uranium Mine", NOAA Expanding Opportunities Conference, Tallahassee, Florida, March 2003. This presentation won first place in the Undergraduate competition. (80 posters, 6 awards, top prize for \$ 500, <http://www.weather.gov/com/nwsfocus/fs040703.htm>)

Z. Bowles, P.E. Tissot, P. Michaud and A. Sadovski "Artificial Neural Network Predictions of Water Levels in a Gulf of Mexico Shallow Embayment", Third International Conference on Multivariate Approximation Theory and Applications, Cancun, Mexico, April 24-29 2003.

C. Smith, P. E. Tissot, P. Louchouart, M. Beaman, R.L. Parker, M. Williams, J. Brandenberger, B. Herbert, and P. Michaud, "Have Radionuclides Released from the South Texas Uranium Mines Affected Lake Corpus Christi?" invited presentation to the 2002 National Sigma Xi Student Research Conference, Galveston, Texas, November 16, 2002, p. 31. This presentation was selected for an award (3rd place, ecology).

C. M. Smith, P.E. Tissot, M. Beaman, R.L. Parker, J.M. Brandenberger, M. Williams, P. Louchouart, B. Herbert, and P.R. Michaud, "Historical Environmental Impact of Uranium Mining Through the Gamma Ray Analysis of Livestock Pond Sediments", 2002 Annual Geological Society of America Meeting, October 27-30, 2002, Denver, CO, p.416.

M. Beaman, P.E. Tissot, J. Brandt, "Kopplin Gamma Radiation Survey", 2002 ESRI User Conference, Redlands, CA.

J. Stearns, P.E. Tissot, P. Michaud, W.G. Collins, and A.R. Patrick, "Comparison of MesoEta Wind Forecasts with TCOON Measurements along the Coast of Texas" Proceedings of the 19th AMS Conference on Weather Analysis and Forecasting/15th AMS Conference on Numerical Weather Prediction, 12-16 August 2002, San Antonio, Texas, pp. J141-J144, 2002.

Robert Rivera and P.E. Tissot, "Radon Exhalation From Soils of South Texas Uranium Mines" presentation at the 2002 Summer Undergraduate Research Focus Symposium, Texas A&M University-Corpus Christi, Texas, August 2002.

M. Williams & P. Tissot, "Development of a method to create homogeneous sediment standards for use in calibration of gamma ray spectroscopy and application to estuarine sediment cores", presented at the 16th Biennial Estuarine Research Federation Conference (ERF 2001) in St. Petersburg Florida, November 4-8, 2001. This poster presentation was selected as one of the four outstanding undergraduate posters of the conference (runner up).

M. Beaman, P. Tissot, and J. Brandt "Kopplin Gamma Radiation Survey" presented at the 2001 South Texas Environmental Conference, Corpus Christi, Texas, October 2001.

M. Beaman, P. Tissot, and J. Brandt "Kopplin Gamma Radiation Survey", CBI Technical Report # 01-001, Conrad Blucher Institute for Surveying and Sciences, Corpus Christi, Texas, May 2001.

J. Brandenberger, P. Louchouart, J. Bonner, B. Herbert, P. Tissot, P. Michaud, and M. Beaman, "Trace Metal Concentrations in Sediments of Nueces Bay System", presentation to the 8th Annual South Texas Environmental Conference, Corpus Christi, Texas, October 2000.

R.L Parker, B.E. Herbert, P.E. Tissot, and G. Ussery, "Gamma Spectroscopy of Livestock Pond Sediments from the Falls City, Texas, UMTRA Site: Scrutiny of DOE Contamination Classification", presentation at the 1999 Annual meeting of the Geological Society of America, Denver, Colorado, October 25-28, 1999.

*Sigma Xi 2004 Rewards: "Good, Excellent, and Superior poster presentations were recognized with White, Gold and Blue ribbons respectively. Blue ribbon recipients were also given a cash award".