### SHORT COURSE ON METHODS AND SOFTWARE FOR HURRICANE AND TROPICAL STORM PREDICTION

**20 JANUARY 2008**  
MORIAL CONVENTION CENTER  
NEW ORLEANS, LA

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**ORGANIZER**  
Bob Glahn

**AMS COMMITTEE ON PROBABILITY AND STATISTICS**  
Richard W. Katz, Chairperson  
William M. Briggs, David R. Bright, J. Paul Dallavalle, Elizabeth E. Ebert, Timmamm Gneiting, Thomas M. Hamill, Elise V. Johnson, Cecile Penland, David B. Stephenson, Marina M. Timofeyeva, and Bob Glahn (ex officio)

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**PROGRAM (Room 222)**

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<thead>
<tr>
<th>SUN 20 JAN</th>
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<tr>
<td><strong>8:30 A.M.</strong></td>
<td><strong>1:00 P.M.</strong></td>
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<tr>
<td>ARRIVAL AND INTRODUCTIONS. Bob Glahn, NWS, Silver Spring, MD</td>
<td>PRESENTATION AND DISCUSSION OF THE SHIPS INTENSITY MODEL AS AN EXAMPLE OF REGRESSION, NESDIS TROPICAL CYCLONE GENESIS PARAMETER AS AN OPERATIONAL EXAMPLE OF DISCRIMINANT ANALYSIS, DISCUSSION OF NEURAL NETWORKS AND GENETIC ALGORITHMS, WITH EXERCISES. Mark DeMaria, NESDIS, Fort Collins, CO</td>
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<td><strong>8:40 A.M.</strong></td>
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<td>STORM SURGE FORECASTING PRACTICES, TOOLS FOR EMERGENCY MANAGERS, A PROBABILISTIC STORM SURGE MODEL BASED ON ENSEMBLES AND PAST ERROR DISTRIBUTIONS. Arthur Taylor, NWS, Silver Spring, MD</td>
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<td><strong>10:00 A.M.</strong></td>
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<td>COFFEE BREAK</td>
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<td><strong>10:30 A.M.</strong></td>
<td><strong>3:30 P.M.</strong></td>
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<td>INSTRUCTION AND ACTUAL DOWNLOADING OF THE R SOFTWARE PACKAGE TO STUDENT LAPTOPS (PERSONAL LAPTOPS NOT REQUIRED, BUT ARE BENEFICIAL FOR TAKE-HOME). INSTRUCTION ON ITS USE, CUT AND PASTE EXAMPLES OF SOURCE CODE. OVERVIEW OF INFERENTIAL STATISTICS AND DATA MODELS USING THE R FREEWARE PACKAGE. James Elsner, FSU, Tallahassee, FL</td>
<td>INTRODUCTION TO PRINCIPAL COMPONENT IMAGE (PCI) ANALYSIS WITH SPECIAL EMPHASIS ON HURRICANE IMAGERY, USE OF ACTUAL AND SIMULATED DATA TO SHOW HOW IT CAN BE APPLIED TO MULTI-SPECTRAL SATELLITE IMAGERY. Don Hillger, NESDIS, Fort Collins, CO</td>
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<td><strong>12:00 P.M.</strong></td>
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<td>SHORT COURSE LUNCHEON</td>
<td>DISCUSSION, WRAP-UP.</td>
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<td><strong>5:00 P.M.</strong></td>
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<td>SHORT COURSE ADJOURNS.</td>
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