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ARCTIC IN RAPID TRANSITION: INTEGRATING SPATIAL AND TEMPORAL SCALES IN THE CHANGING ARCTIC SYSTEM: TOWARDS FUTURE RESEARCH PRIORITIES

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The Arctic in Rapid Transition (ART) network in cooperation with the Association of Polar Early Career Scientists (APECS) and European Institute for Marine Science (IUEM) organized an international multidisciplinary science workshop “Integrating spatial and temporal scales in the changing Arctic System: towards future research priorities” (ISTAS) in October 2014. The workshop aimed at discussing future priorities of Arctic research from an early career scientists’ perspective. In total, 76 scientists from thirteen different countries participated in the workshop, 60% of them were early to mid-career researchers. In plenary and parallel sessions, trends and variability in the Arctic marine and coastal systems were reviewed over various spatial and temporal scales in order to better understand the presently changing Arctic system as a whole. Participants presented the newest results of their ongoing research, which eventually fed into comprehensive discussions on future Arctic research priorities on biological and physical oceanography, sea ice, marine biodiversity, land-ocean interactions, paleo-reconstruction and biological archives, as well as law and economics. Here we present the fact sheets, the main outcome of the workshop which highlights the research directions from the perspective of early career scientists. This is of great importance to ensure the involvement of the next generation of Arctic researchers and their contribution to the ICARP III process.