How predictable are different aspects of the Arctic system, and how can improved understanding of predictability facilitate planning, mitigation and adaptation?  [SEARCH UCR]

How well can Arctic change be projected and what is needed to improve projections?  [ISAC]

- Quantification and improved understanding of natural variability
- Seasonal to decadal: Observing system sensitivity experiments
- Process studies targeting key model parameterizations
What are the critical linkages between the Arctic System and the Global System?  [SEARCH UCR]

How is the Arctic linked to global change?  [ISAC]

• Transports from middle latitudes into Arctic
• Surface fluxes of greenhouse gases (and water vapor)
• Ice sheet/glacier contribution to sea level rise
• Feedbacks involving sea ice and high-latitude oceans
• Ozone depletion
What are the Arctic system’s tipping points: the abrupt changes that are most consequential for ecosystems and humans? [SEARCH UCP]

How unique and persistent is the presently observed Arctic change? [ISAC]

• Observations targeting key processes and feedbacks

• Historical perspective – reconstructions of longer-term variations
How will the critical intersections between human and natural systems in the Arctic change over the next several decades?  
[SEARCH UCP]

Various related questions  [ISAC]
What are the critical linkages between the Arctic and the global system?

How will changes in the cryosphere drive changes in the economic, social and environmental components of the Arctic system?