

ESA Earth Observation

We develop world-class Earth Observation systems with European and global partner to address today's scientific and societal challenges



· e e sa



ESA Polar Science Cluster Activities

esa

An example: An integrated approach in Polar sciences

·eesa

ESA UNCLASSIFIED - For Official Use

First Arctic Summer Sea Ice Thickness (Jack Landy, Univ. of Bristol)

Source: Jack Landy, Living Planet Fellowship Animation: Planetary Visions

Ocean currents carry warm water beneath the ice shelves, increasing melting at their base

Bringing data and models together: Digital Twin Antarctica

•eesa

Next challenges for ESA Science Cluster

Integrated assessment of the Southern ocean as a full couple ocean-cryosphere system

Arctic Permafrost and methane emissions

Role of mountain glaciers in the water cycle and global sea level rise...

- 🚍 💶 📲 🚝 🚍 📲 📲 📕 🚝 📕 📲 🚍 ∺ 🚝 🛶 🚳 🖕 🜗 💥 🕂 🖬 🚍 🚟 🐏 🔹 the European space agency