FUTURE 2024 Workshop
March 26-28, Woods Hole, MA

135 in-person participant from > 60 US Institutions
65 online participants

OCE: 2341096

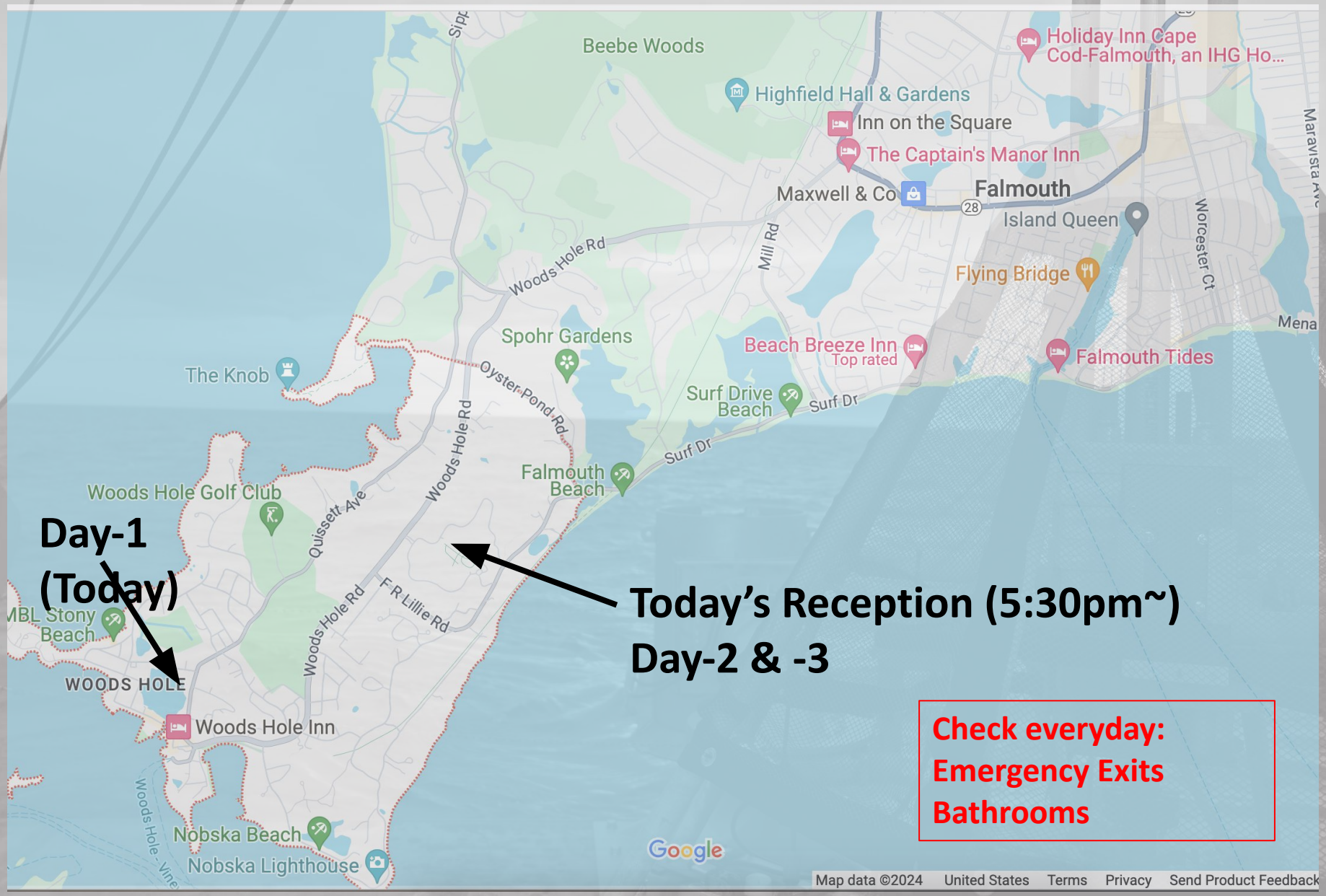
Tominaga (WHOI)

Walczak (OSU)

Reilley (LDEO)

Schrenk (MSU)

Konrad (UNLV)


Beebe Woods
Holiday Inn Cape Cod-Falmouth, an IHG Ho...
Highfield Hall & Gardens
Inn on the Square
The Captain's Manor Inn
Maxwell & Co
Falmouth
Island Queen
Flying Bridge
Mill Rd
Worcester Ct
Maravista Ave
Mena
Woods Hole Rd
Spohr Gardens
Beach Breeze Inn
Top rated
Falmouth Tides
The Knob
Oyster Pond Rd
Surf Drive Beach
Surf Dr
Falmouth Beach
Woods Hole Golf Club
Quissett Ave
Woods Hole Rd
F R Lillie Rd
MBL Stony Beach
WOODS HOLE
Woods Hole Inn
Nobska Beach
Nobska Lighthouse
Day-1 (Today)
Today's Reception (5:30pm~)
Day-2 & -3
Check everyday:
Emergency Exits
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Future of US Marine Seafloor/Subseafloor sampling capabilities

Day-1: Science

Day-2: Technology

Day-1: Critical science questions that require seafloor sampling

- What is the spatial and temporal extent that define your research questions?
- What are the components (e.g., what bugs, muds, etc…) of your system?
- Are you satisfied by the current sample coverage of the spatial/temporal environment where your science targets are located? .....If not, what is lacking?
- How are current repositories and databases used to address your science questions?
- What is the justification for acquiring new materials?
- **What are the science questions that can be addressed now (5-10 years) versus longer timescales (10-20+ years)?**

Day-2: Aligning seafloor sampling technology with critical science questions

- **What currently available tools, technologies, and resources** are essential to your research?
- Are there tools, technologies, or resources for which the technology already exists (e.g., existed in the past, utilized by other countries) that are needed to address your critical science questions?
- What are these largest challenges to acquiring the types of samples required for your research, from the smallest scales (e.g. DNA from a bug), to regional scales (e.g. characterization of complex depositional systems), to ephemeral properties (e.g. preserving redox chemistry of the seafloor)?
- Given current US resources, to what extent are you capable of obtaining the materials needed to address your science goals? If capabilities are lacking, what is the justification for acquiring or developing new technologies?
- **What types of sample curation, preservation, and data system infrastructure are needed to maximize the benefit of seafloor sampling campaigns? To what extent can existing resources be used? What new approaches or resources should be developed?**

(Barbapapa en familie!
By Annette Tison & Talus Taylor; Viacom)
WHOI_ Redfield Auditorium

National Science Foundation

What are science questions to be addressed using seafloor/subseafloor samples?

To address the science questions, what are currently (and in the near-future) available tools, technologies, and resources?