

NASA's Universe of Learning

An Integrated Astrophysics STEM Learning and Literacy Program

LETTER

Seven temperate terrestrial planets around the nearby ultracool dwarf star TRAPPIST-1

The first of planets discovered by the Spitzer Space Telescope, TRAPPIST-1 is a nearby ultracool dwarf star with seven temperate terrestrial planets. The planets are located in the habitable zone of the star, where liquid water could exist. The discovery of these planets is a major breakthrough in the search for habitable worlds. The planets are named TRAPPIST-1 b, c, d, e, f, g, and h. They are all rocky planets with radii between 1.05 and 1.25 Earth radii. The distance between the planets is very small, with the closest planet, TRAPPIST-1 b, being only 3.7 light days from the star. The planets are all in the habitable zone, where liquid water could exist. The discovery of these planets is a major breakthrough in the search for habitable worlds.

New Science Results
Subject Matter Experts



Our Program Elements

Data Tools &
Participatory Experiences

Multimedia &
Immersive Experiences

Exhibits &
Community Programs

Professional Learning
Experiences



UNIVERSE OF LEARNING



Our program is designed
to advance SMD
Objectives:

- Enable STEM learning
- Improve scientific literacy
- Advance National Education Goals
- Leverage through Partnerships



ST&I | SPACE TELESCOPE
SCIENCE INSTITUTE



Jet Propulsion Laboratory
California Institute of Technology



Smithsonian Astrophysical Observatory



External Evaluation

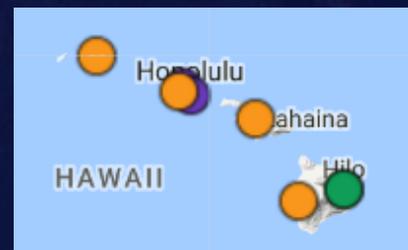
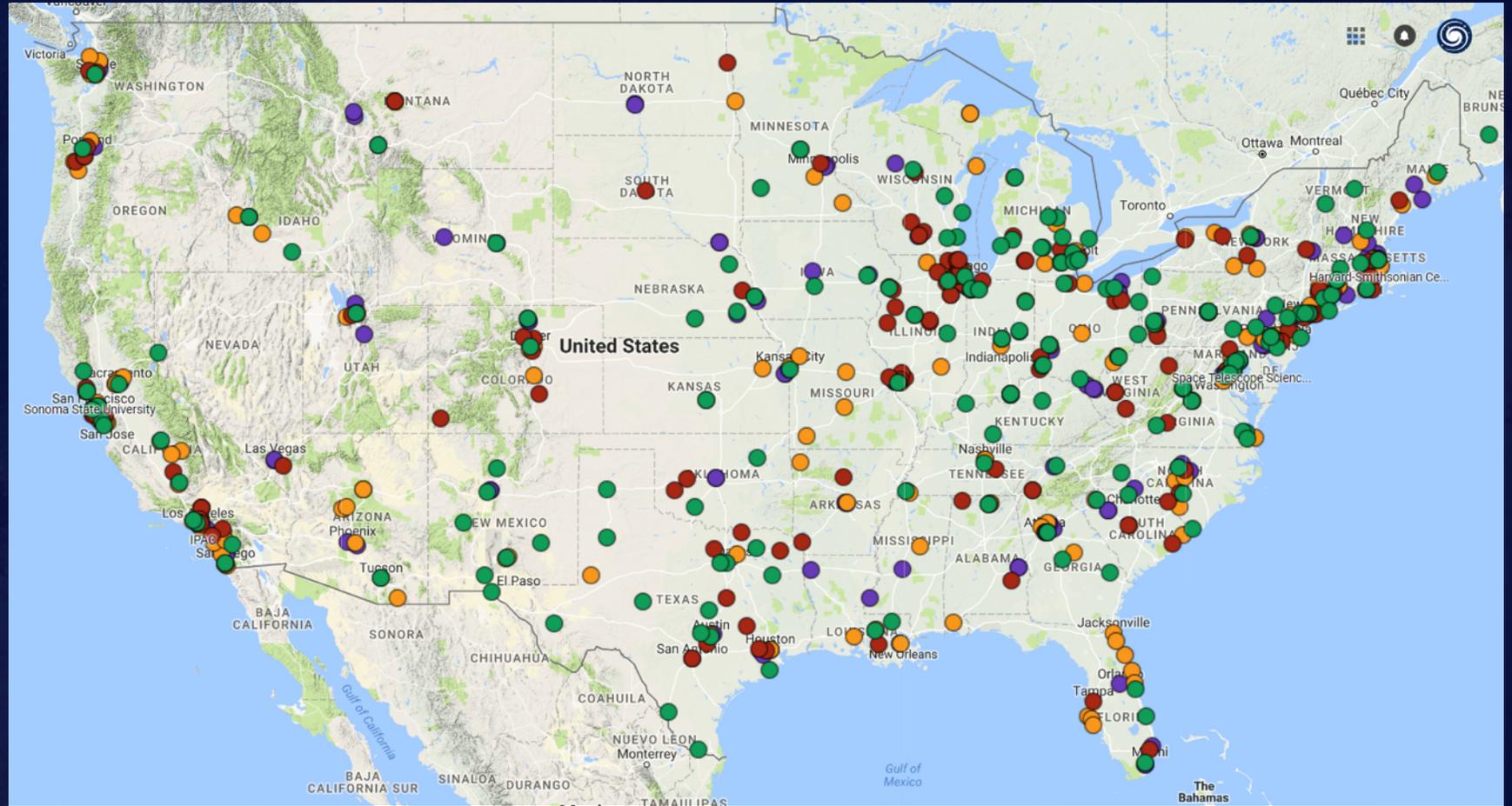
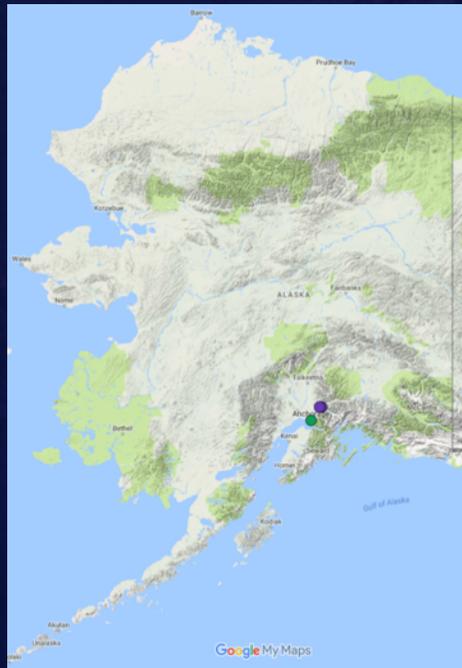
GRG

Goodman Research Group, Inc.



Our Reach

Examples of reach from a subset of activities from the NASA's Universe of Learning Program



Activities reach over 500 venues in all 50 states

-  National Science Olympiad
-  ViewSpace
-  Girls STEAM Ahead with NASA
-  Science Briefings