



# **NASA Exoplanet Research Coordination Network**

**A cross-division initiative**



# NASA Exoplanet Systems Science NExSS is a cross-division initiative

Exoplanet research cuts across SMD and NExSS  
Objectives of NExSS

To further our joint strategic objective to explore exoplanets as potential habitable and inhabited worlds outside our solar system.

To leverage existing Programs in SMD to advance the field of Exoplanet Research, specifically research in comparative planetology, biosignature and habitat detection, and planet characterization.

Establish a mechanism to break down the barriers between, divisions, disciplines and stove piped research activities.



# What is a Coordination Network?

A virtual structure to support groups of investigators to communicate and coordinate their research, training and educational activities across disciplinary, organizational, divisional, and geographic boundaries.



## What Research Coordination Networks have accomplished?

Provided opportunities to foster new collaborations, including international partnerships, and address interdisciplinary topics.

Provided innovative ideas for implementing novel networking strategies, collaborative technologies.

Supported the development of community standards for data and meta-data.

Supported the means by which investigators can

- share information and ideas,
- coordinate ongoing or planned research activities,
- foster synthesis and new collaborations,
- develop community standards,
- and in other ways advance science and education through communication and sharing of ideas.

# Implementation

## Astrophysics

Exoplanet Detection  
Star Characterization  
Existing Mission Data  
Analysis  
JWST

## Earth Sciences

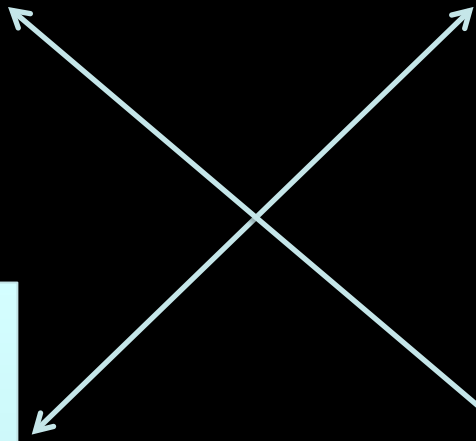
Planetary Systems Science  
(extrapolate Earth)  
Comparative Climatology  
Biosignatures

## PSD--XRP and Astrobiology

Exoplanet Characterization  
Protoplanetary Disks  
Planet Formation  
Comparative Planetology  
Biosignatures  
Habitability

## Heliophysics

Detection of planetary  
magnetospheres  
Stellar winds





# Summary

PIs from all divisions

PIs selected in existing programs

Members of NExSS selected for complementary  
research topics

No new funds

No new funding calls