



# NDSF 2013 Vehicle Operations Summary

## Jason Operations



- **203 funded days**
- **7 cruises completed**  
*Hawaii - Loihi, Atlantic Canyons*  
*Juan de Fuca, Santa Barbara Seeps*
- **79 lowerings, 1,363 total hrs**
- **Longest: 116 hrs**
- **Average: 17 hrs**
- **Dives lost: None**
- **Data total: 1,207 hrs, 15TB, 2,800 video DVDs**
- **Vessels used:** *Thompson, Ron Brown, Atlantis*





# NDSF 2013 Vehicle Operations Summary

## Jason Highlights



## Bottom Time

- **57 days**
- **Long duration dives (one 5-day lowering)**
- **Long transits on the sea floor**
  - *560 km total, 52 km on one dive*
- **Extensive use of elevators to extend dive time**

## Flexibility

- **Continued reduction in turnaround time**
  - *4 hours standard in most cases, 1 hour occasionally depending on circumstances*
- **Work in shallow water (40m SOP)**
- **Can staff with 9 when needed, 10 still preferred**



# NDSF 2013 Vehicle Operations Summary

## Sentry Operations



- **134 funded days**
- **4 cruises completed**  
*Hawaii-Loihi, MAR, GoM, SoCal*
- **46 dives, 728 hrs**
- **Longest: 33 hrs**
- **Average: 16 hrs**
- **1,356 km of survey**
- **Data total: 13TB**
- **Vessels used:** *Thompson, Knorr, Nautilus, Atlantis*





# NDSF 2013 Vehicle Operations Summary

## Sentry Highlights



- **Two new people fully qualified for pre- and post-dive checks of the vehicle**
- **Active drive away descent → *Jason* doesn't have to be off the bottom for a dual ops launch**
- **Biological sampling**
- **New forward-looking sonar**
- **Whole new mob/demob/data strategy**
- **Completed 200th dive (now up to 209)**
- **209 days projected next year**



# NDSF 2013 Vehicle Operations Summary

## Alvin Operations



- **58 funded days**
- **Sea trials completed!**  
*Sand Diego harbor, open ocean off southern California*
- **14 dives**  
*3 tethered, 4 harbor, 7 open ocean*
- **Progressive program to increasing depth**
- **Deepest dive: 3,729m**
- **Longest: 8.5 hrs**
- **Bottom time: 3-7 hrs**
- **Data: 4TB**





# NDSF 2013 Vehicle Operations Summary

## Alvin Operations





# NDSF 2013 Vehicle Operations Summary

## Alvin Operations

