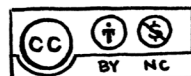


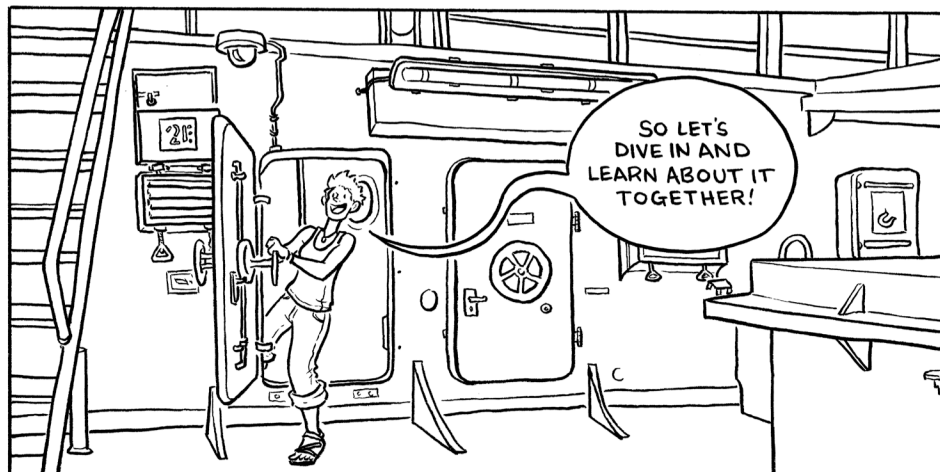
MAPPIN' THE FLOOR

A SCIENTIFIC
HIGH-SEAS ADVENTURE



THIS COMIC WAS PRODUCED AT SEA DURING
A THREE-WEEK RESEARCH TRANSIT FROM
GUAM TO HONOLULU, IN PARTNERSHIP WITH
THE SCHMIDT OCEAN INSTITUTE.

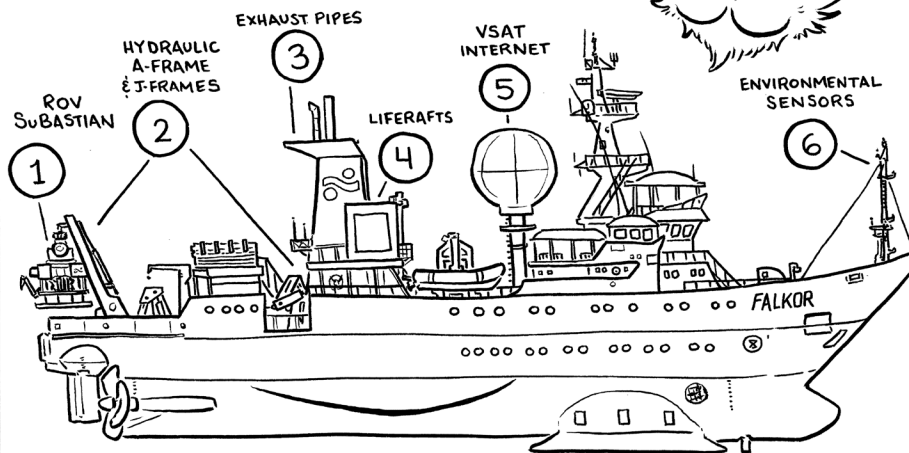




NAMED AFTER THE LUCKDRAGON IN MICHAEL ENDE'S *THE NEVERENDING STORY*, FALKOR WAS ORIGINALLY BUILT IN GERMANY IN 1981.

SINCE HER REFIT AS A RESEARCH VESSEL IN 2012, FALKOR HAS CONDUCTED SCIENCE CRUISES ALL AROUND THE WORLD.

AS A PRIVATELY-OWNED SHIP, FALKOR IS OFTEN OUTFITTED WITH THE LATEST TECHNOLOGY & EQUIPMENT – NOT TO MENTION SOME OF THE BEST RESEARCHERS IN THE FIELD. HERE'S A TOUR OF SOME HIGHLIGHTS:

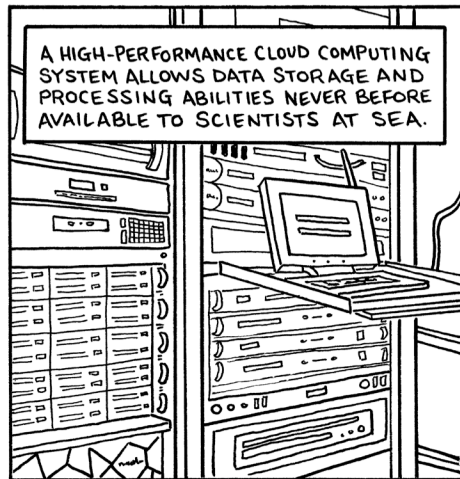
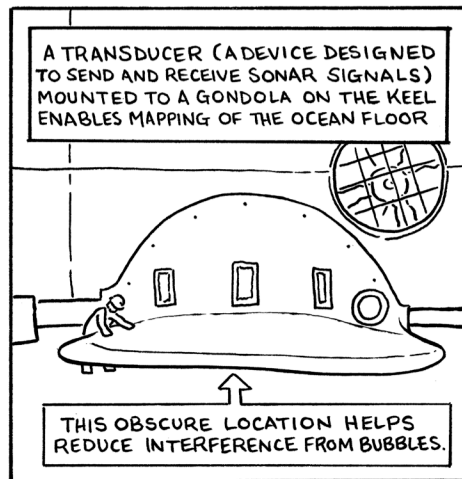
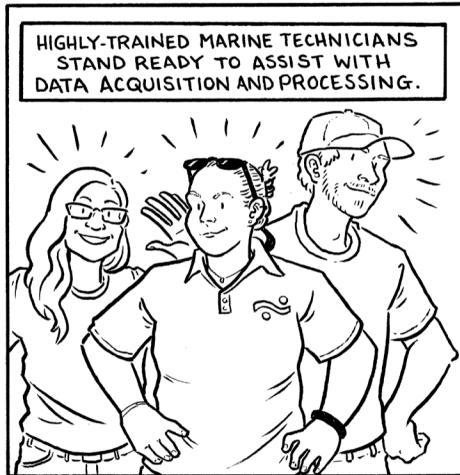
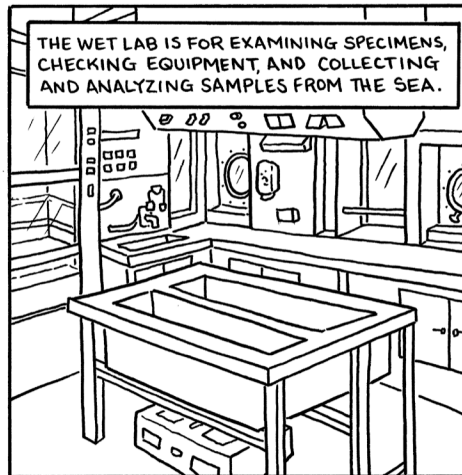
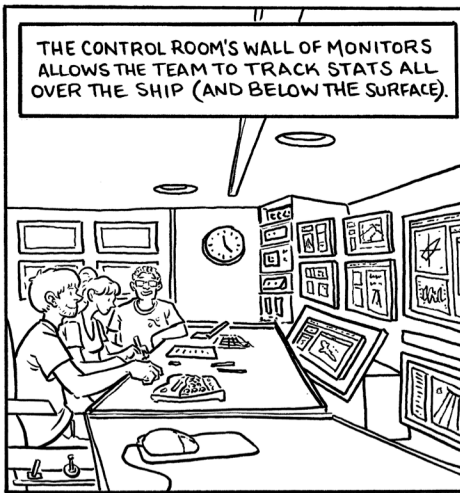


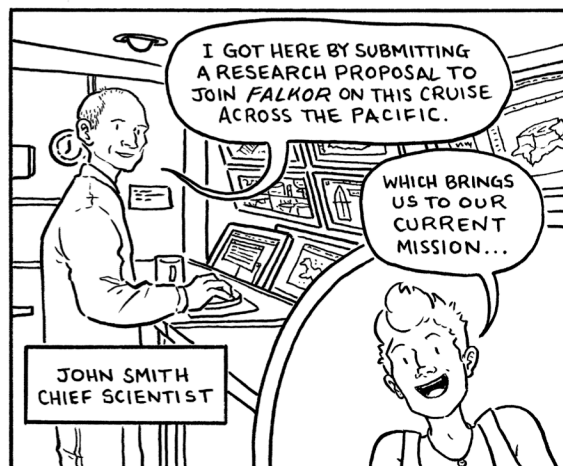
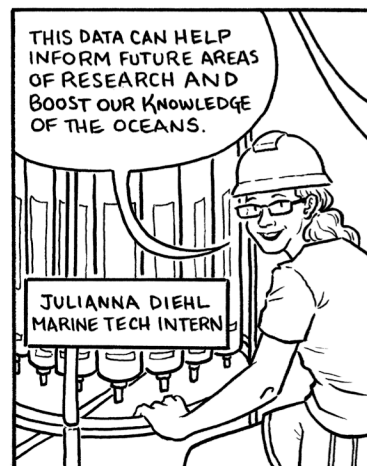
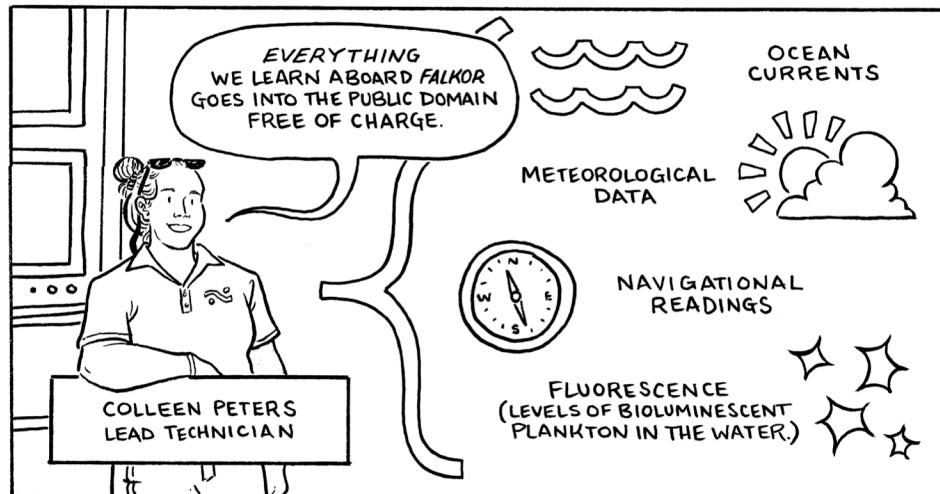
SHIP

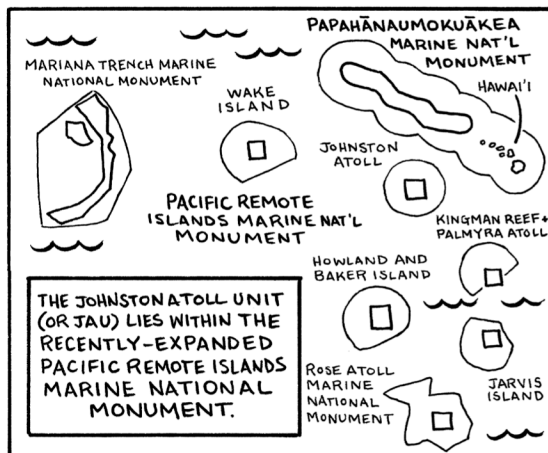
LENGTH: 82.9m BEAM: 13m
DRAFT: 5.8m BERTHS: 42

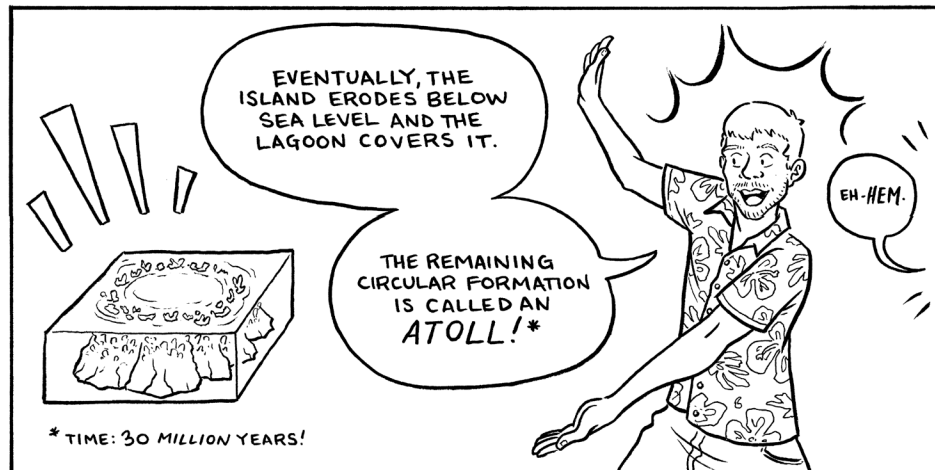
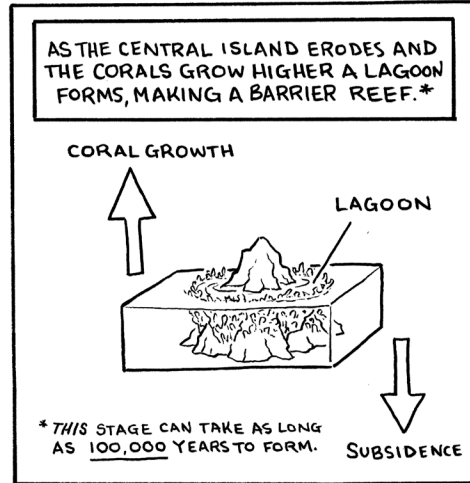
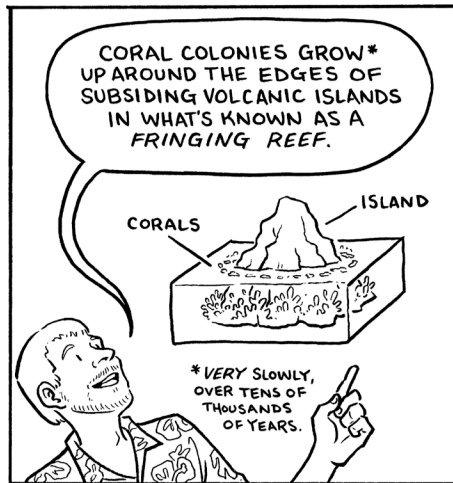
STATS

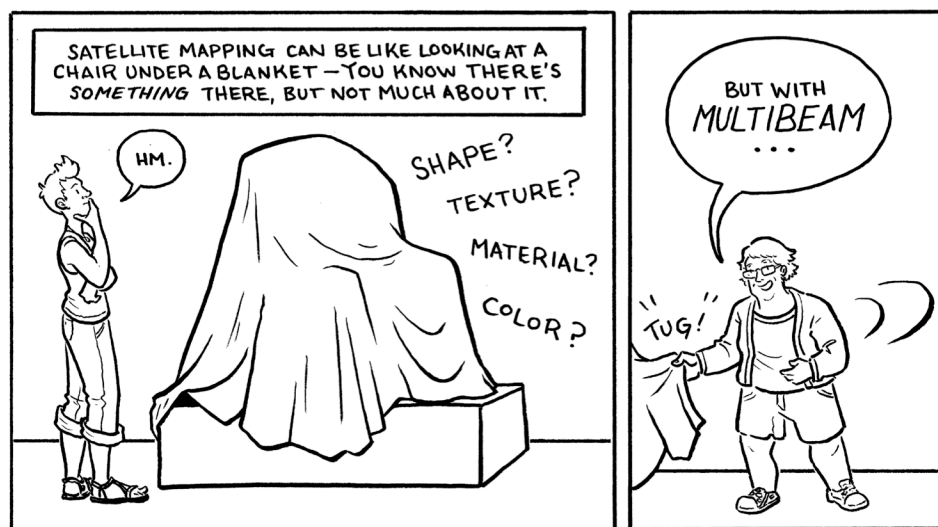
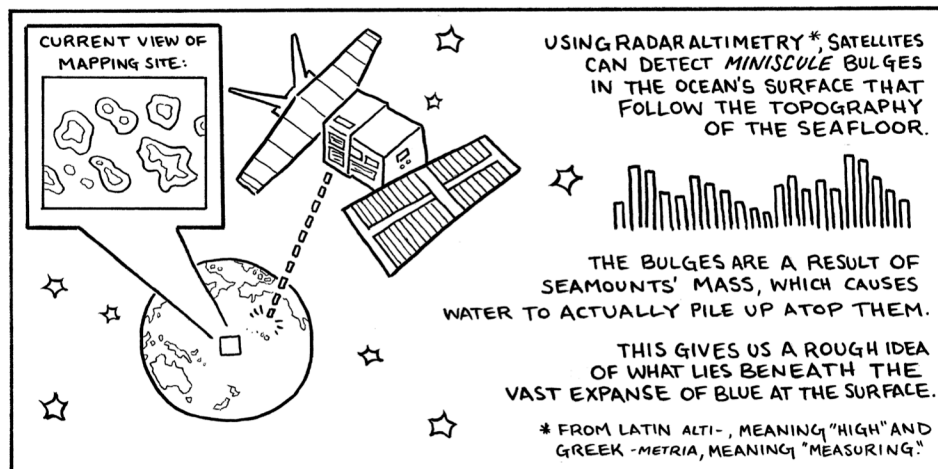
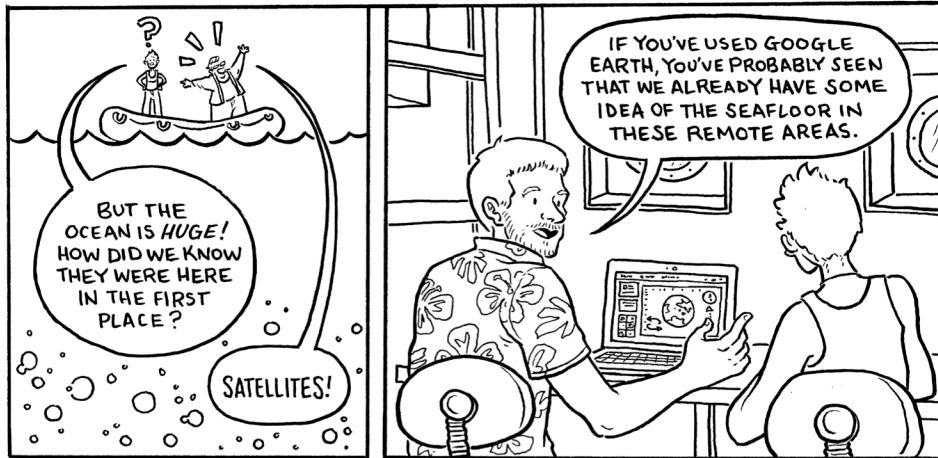
- ① THE SHIP'S OWN REMOTELY OPERATED UNDERWATER VEHICLE JUST LAUNCHED IN 2016.
- ② HYDRAULIC LIFTS HELP WITH LOADING AND DEPLOYING EQUIPMENT.
- ③ TWIN DIESEL ENGINES ALLOW THE VESSEL TO REACH A MAXIMUM SPEED OF 17 KNOTS (19.56 MPH).
- ④ INFLATABLE STRUCTURES DEPLOY IN ABANDON SHIP SCENARIOS. SAFETY IS TAKEN VERY SERIOUSLY BY EVERYONE ABOARD.
- ⑤ TWO ANTENNAE HOUSED IN LARGE, FIBERGLASS DOMES PROVIDE UNMATCHED, HIGH-SPEED INTERNET AT SEA, WITH REAL-TIME DATA STREAMING ONLINE FROM ALL THE SHIP'S MISSIONS.
- ⑥ HIGH-TECH SENSORS CAPTURE EVERYTHING FROM WIND SPEED TO WATER SALINITY TO ATMOSPHERIC PRESSURE TO VESSEL LOCATION.

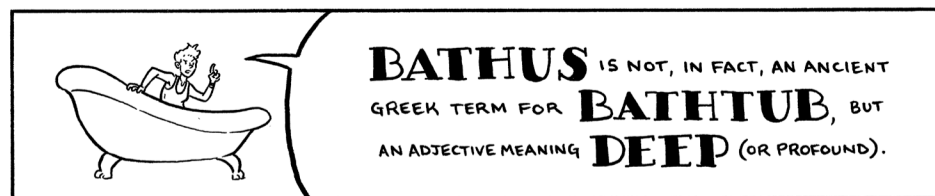
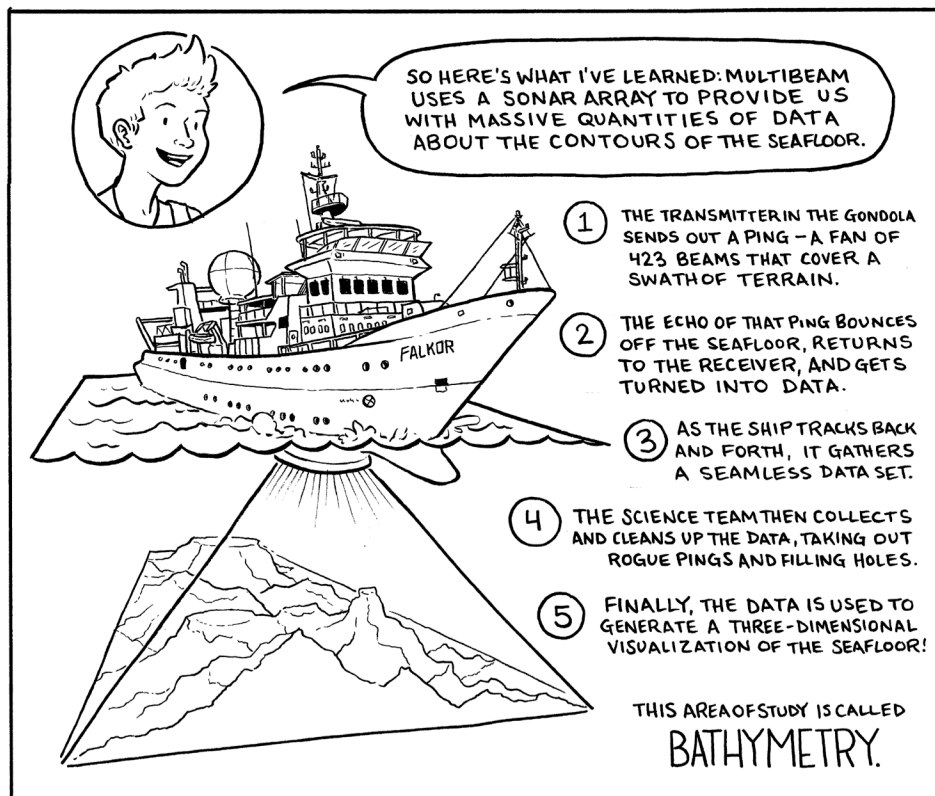




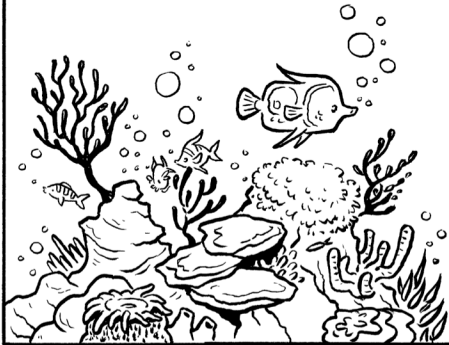








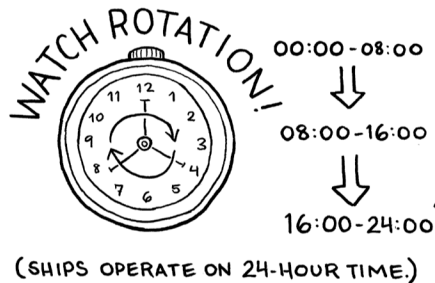
MUCH OF THE JAU HAS NOT YET BEEN MAPPED OR EXPLORED - BUT THE REGION IS A HOTBED OF BIODIVERSITY.



OUR DATA WILL HELP FUTURE TEAMS PLAN MORE FOCUSED DIVE MISSIONS WITH ROVs LIKE SUBASTIAN.



OUR TOTAL MAPPING GOAL IS 7000KM², WHICH MEANS THE SCIENCE TEAM WILL BE STANDING WATCH AROUND THE CLOCK.



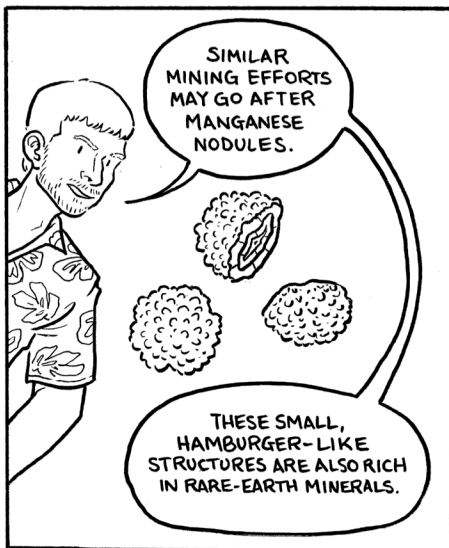
FACT SHEET: DANGER ALERT!

- THE JAU LIES WITHIN THE PRIME CRUST ZONE (PCZ).
- THE PCZ IS AN AREA OF VERY RICH COBALT CRUST FORMATIONS.
- COBALT CRUSTS ARE RICH IN RARE-EARTH MINERALS, USED IN DISK DRIVES, FLOURESCENT LAMPS, AND RECHARGEABLE BATTERIES, WHICH COULD MAKE THESE AREAS A TARGET FOR MINING IN THE FUTURE.

SIMILAR MINING EFFORTS MAY GO AFTER MANGANESE NODULES.

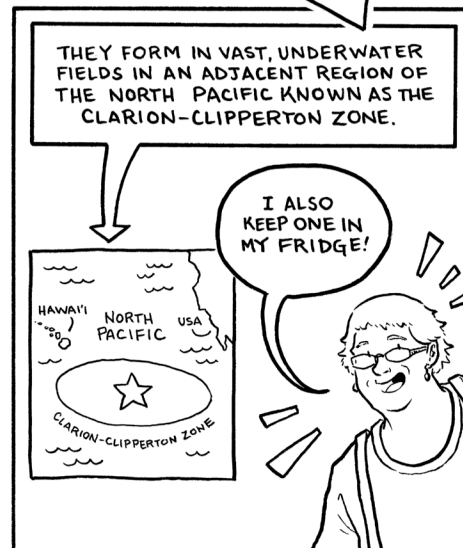
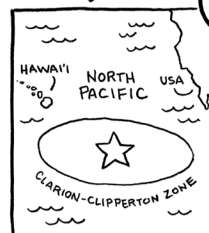


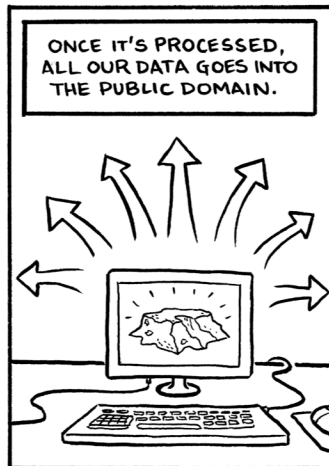
THESE SMALL, HAMBURGER-LIKE STRUCTURES ARE ALSO RICH IN RARE-EARTH MINERALS.



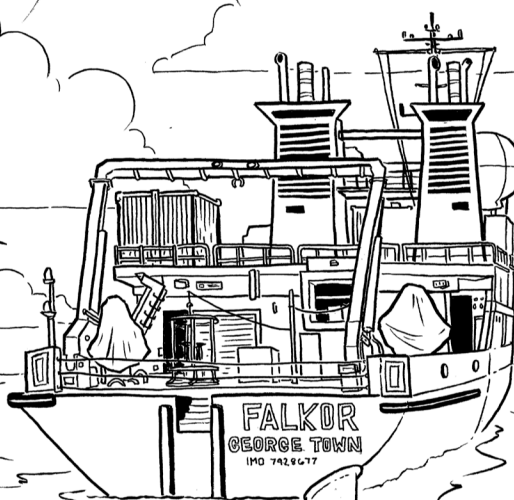
THEY FORM IN VAST, UNDERWATER FIELDS IN AN ADJACENT REGION OF THE NORTH PACIFIC KNOWN AS THE CLARION-CLIPPERTON ZONE.

I ALSO KEEP ONE IN MY FRIDGE!





FOLLOW
OUR
RESULTS!



TO LEARN MORE ABOUT WHAT WE FOUND
AT THE JOHNSTON ATOLL UNIT, LOG ON TO
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THERE'S A WORLD OF INFORMATION
WAITING FOR YOU THERE.

ABOUT THE AUTHOR



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OR ON SOCIAL MEDIA AS
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