JAMAICA AND THE DEEP SEA

THE ROLE OF THE ISA IN CAPACITY DEVELOPMENT FOR JAMAICA.

PRESENTER: MR. HANK HEDGE - GEOLOGIST AND FORMER ISA TRAINEE

AGENDA

ISA CAPACITY BUILDING PROGRAMS

BENEFITS AS A TRAINEE

BENEFITS AS A SPONSORING STATE

THE ISA'S CONTRACTOR TRAINING PROGRAM

- THE INTERNATIONAL SEABED AUTHORITY PROVIDES TRAINING OPPORTUNITIES FOR YOUNG PROFESSIONALS ANNUALLY
- PARTNERSHIP WITH CONTRACTORS
- TRAINING: MARINE SCIENCES, LEGAL & INTERNATIONAL AFFAIRS,
 ENGINEERING, ECONOMICS, INFORMATION TECHNOLOGY, GEOSCIENCES
 and ENVIRONMENTAL SCIENCES

BENEFITS OF A TRAINEE



INCREASES AWARENESS



EXPOSURE AND EXPERIENCE



NETWORKING AND CULTURAL EXCHANGE



CAPACITY BUILDING



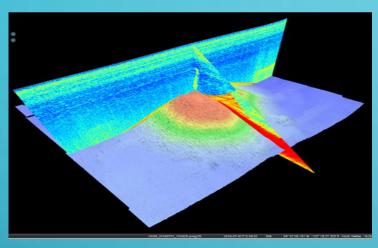


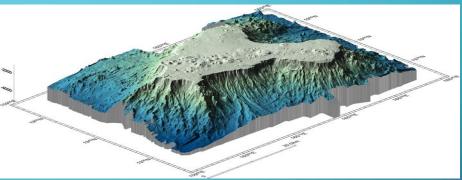




CAPACITY BUILDING
THROUGH THE ISA'S
CONTRACTOR
TRAINING
PROGRAM

Multi-Beam Echo Sounder (MBES): Observe bathymetry and back-scattering strength of the survey area. Below are examples of the 3D model imagery produced from such survey.





FDC: Take movies along the seafloor







Research Vessel "Hakurei"



BMS(Benthic Multi-coring System)



Finder-installed Power Grab (FPG)



Deep-towed TV Camera (FDC)



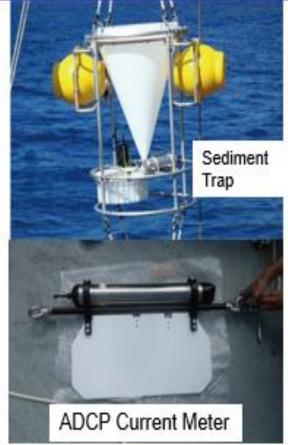
Remotely Operated Vehicle (ROV)

Mooring System:

- ① Sediment Trap (ST): Collect settling sediment particles in sea water
- ② Current Meter (ADCP): Acquire information of ocean current

Rosette Sampler (RO): Water sampling at many depths

Multiple Corer (MC): Acquire seafloor sediments













BENEFITS OF MY TRAINING TO JAMAICA

CAPACITY BUILDING POST TRAINING

- INCREASE CAPACITY BUILDING AND KNOWLEDGE SHARING IN JAMAICA
 - > CONDUCTING PRESENTATIONS
 - ATTENDING ISA'S GENERAL ASSEMBLY & COUNCIL MEETING SESSIONS
 - PROMOTE AWARENESS
 - MARKETING OF THE ISA CONTRACTOR
 TRAINING PROGRAM

POST TRAINING CAPACITY BUILDING IN JAMAICA

- JAPAN DONATED SUBMARINE MINERAL SAMPLES TO THE MINES AND GEOLOGY DIVISION FOR THEIR 160TH ANNIVERSARY CELEBRATION.
- 3 TYPES OF SAMPLES
 - COBALT RICH CRUST
 - POLYMETALLIC NODULES
 - SEAFLOOR MASSIVE SULPHIDE.
- Mr. Hikari Hino of JOGMEC (right) hands over submarine sample to the Commissioner of Mines, Mr. Roy Nicholson.





DR. OKAMOTO
PRESENTING ON DEEP
SEABED MINING TO
STAFFS AT THE MINES &
GEOLOGY DIVISION



JAMAICA- A SPONSORING STATE

- IN JANUARY 2019, THE MINISTRY OF FOREIGN AFFAIRS AND FOREIGN TRADE, SIGNED AN AGREEMENT TO ACT AS A SPONSORING STATE OF BLUE MINERALS JAMAICA (BMJ) LIMITED IN ITS APPLICATION TO THE INTERNATIONAL SEABED AUTHORITY (ISA) FOR A CONTRACT TO EXPLORE THE POLYMETALLIC NODULES OF THE DEEP SEABED.
- ON MARCH 16, 2021, A 15-YEAR CONTRACT WAS SIGNED BY BMJ AND ISA FOR THE EXPLORATION OF POLYMETALLIC NODULES IN THE CLARION CLIPPERTON ZONE (CCZ) IN THE PACIFIC OCEAN.

BENEFITS OF A SPONSORING STATE

ACCESS TO DEEP-SEA MINERAL RESOURCES

CONTRIBUTION OF RESERVED AREAS FOR OTHER STATES TO APPLY TO ISA FOR EXPLORATION RIGHTS

INDUSTRIAL OPPORTUNITIES

ECONOMIC GROWTH AND DEVELOPMENT

BENEFITS TO JAMAICA

- IMPLEMENT POLICIES GEARED TOWARDS THE FUTURE DEVELOPMENT AND USE OF OUR MARINE RESOURCES IN OUR EEZ.
- INCREASE PUBLIC AWARENESS THROUGH SCIENCE AND RESEARCH FAIRS.
- ESTABLISHMENT OF PUBLIC PRIVATE PARTNERSHIPS (PPP)
- ECONOMIC GROWTH & STABILITY
- INTRODUCTION AND PROMOTION OF NEW CAREER FIELDS IN THE MARINE INDUSTRY.
- ADAPTATION OF A NEW MENTALITY THAT TAKES INTO CONSIDERATION
 THE BENEFITS OF THE FUTURE GENERATION.
 - OFFER INCENTIVES TO ENCOURAGE INVESTORS TO EXPLORE THE EEZ.
 - MAXIMIZATION OF THE BLUE ECONOMY "THE NEW FRONTIER".

THE END

