

## Dive Bells and Saturation

- Dive bells are watertight
- Gas filled with gasses (HE & O2) from surface supplied hoses
- Emergency systems on board

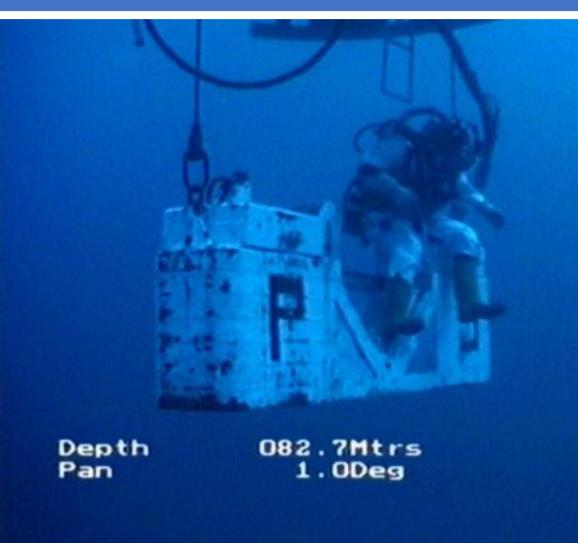


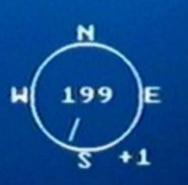
Book: Nichols C., & Williams Robert. (2017). *diving bell.* Facts On File. (Encyclopedia of Marine Science)

### Impact of Saturation Diving

Saturation diving is done in deep water
Mostly for oil and gas companies
No divers in the water for these companies,
prices start going up
Divers also provide routine maintenance on
platforms and pipelines

MAG: Rich, N. (2013, February 7). Diving deep into danger. *The New York Review of Books*, *60*(2), 20.





#### Necessity of saturation diving

- Underwater gas and oil pipelines
- No need for repetitive decompression/ which in return becomes energy efficient
- Cost efficient

**RJ** (JJ) The Assessment of Daily Energy xpenditure of Commercial Saturation Divers Using Doubly Labelled Water. Frontiers in



## Compression

- PPO2 (partial pressure of oxygen) increases as you descend
- Upon descent your switched to a Heli-ox mix of air
- Decreased O2

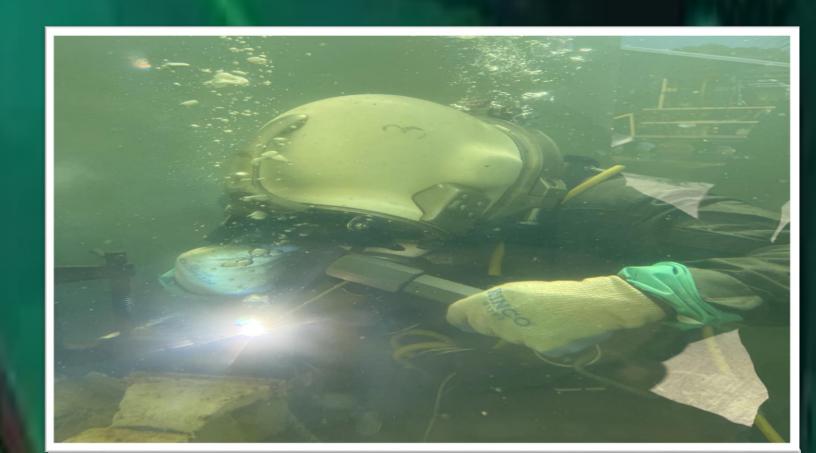
#### DSV'S Dive Support Vessels





# Supports diving operations to include Saturation

- Moon pool
- Dive hoses
- Four point
- DPS (Dynamic Positioning System)



#### Conclusions

- Obtain required certifications
- Wear the correct gear
- Understanding the science and physics of diving
- Follow the correct steps of launch and recovery of the bell and dive teams

By Following the Above

Protocols: