History and development of fishing boat construction In Central America.







BOATBUILDING HISTORY & TRADITION: Dugout Canoe - flat bottom planked boat



SEVERE NATURAL CONDITIONS: Dangerous ocean entrances for small and wooden boats without engines



Flat bottom planked boats for calmed seas: An approach with LIMITED RESOURCES



Lifting hoists work well from piers, thus providing Improved, but limited ACCESS TO THE SEA



Flat bottom planked boats worked well into the seventies before being replaced by fiberglass



SIZE INCREASE: Shrimp travelers up to lengths of 60°.





QUALITY IMPROVEMENT of wooden boat construction



The traditional dugout canoe still has widespread acceptance.



Fiberglass boats developed for the same use as their wooden predecessors.



Clearly a design for larger outboard engines. Sails ? Oars ?



Typical design for a 21' fiberglass fishing boat, with installed icebox and other appliances.



Fiberglass boats in all shapes and sizes.

3 THE EMERGENCE OF FIBERGLASS













- -Appropriate design.
- -Positive model construction.
- -Mould casting.
- -Production
- -Testing.

- -Durability
- -Easy maintenance and repair.
- -Beach landing.
- -Sustainability?
- (Wood resources)



Medium size fishing travelers build in Ferro cement. Deck and inboard engines.



Cheap material costs. Qualified labor. Low maintenance. Durability?



Deck, cabin, hydraulic winches, iced fish hold. Safety, range and autonomy.



Acceptable production

PRESENT SITUATION:

- Actual, wide-spread solution based on fiberglass vessels powered by outboard engines
- High impact of fossil fuel prices on both material and fuel costs
- Emerging timber management in Central America makes wood a feasible boatbuilding material option
- Alternative propulsion techniques (wind, row) not in practice

THE CHALLENGE:

- Appropriate design, taking into account local conditions
- Cultural acceptance
- Sustainable approach for boatbuilding materials and propulsion

A possible option:

Wooden, wind-driven fishing vessels?

