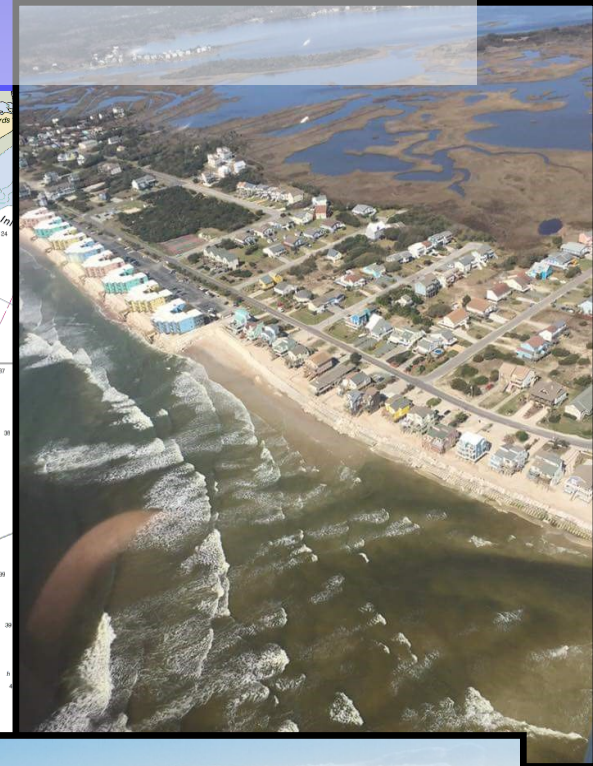
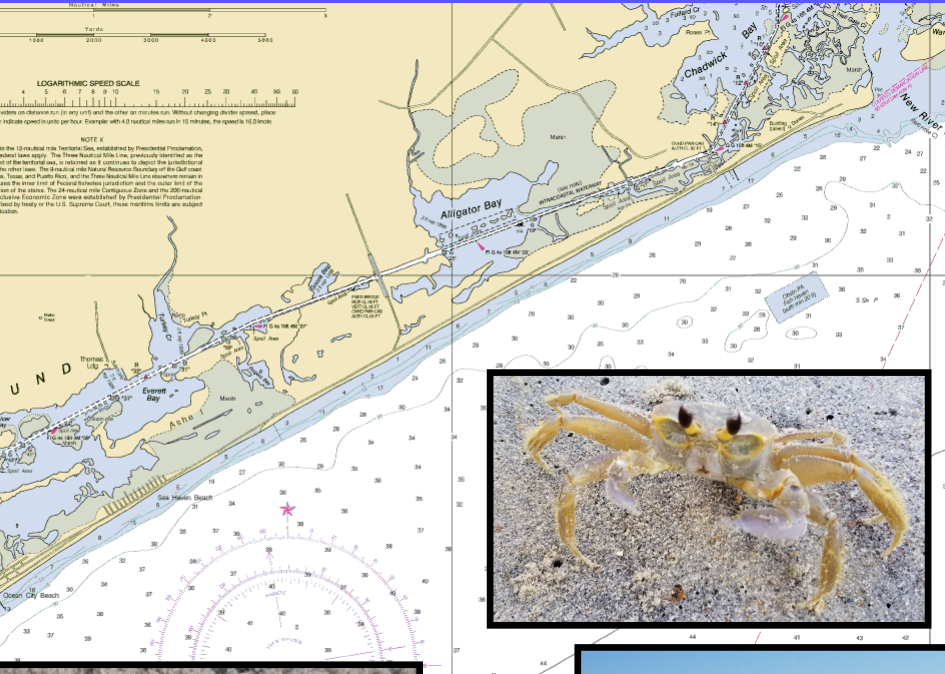


North Topsail Beach Coastal Update

April 2023



Marina, Coastal, Environmental
& Water Resources Engineers

Ongoing and Upcoming Projects Overview

State Grant, Dorian and Florence FEMA Category G



USACE (Corps) AIWW/Channel Dredging. Completed Mid March



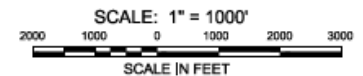
NOTES

1. DUE TO AGE OF PHOTOGRAPHY, PIPELINE ROUTE IS APPROXIMATE. THE CONTRACTOR SHALL NOTIFY THE TOWN OF NORTH TOPSAIL BEACH NO LESS THAN 15 DAYS PRIOR TO COMMENCEMENT OF PIPELINE PLACEMENT. POINT OF CONTACT

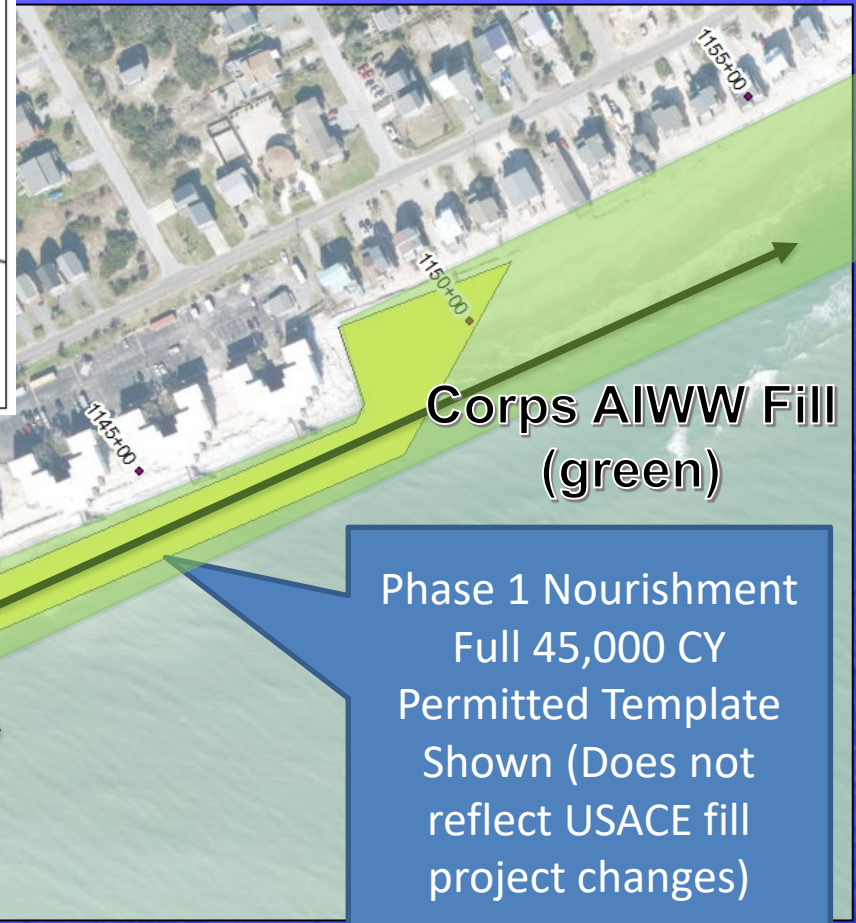
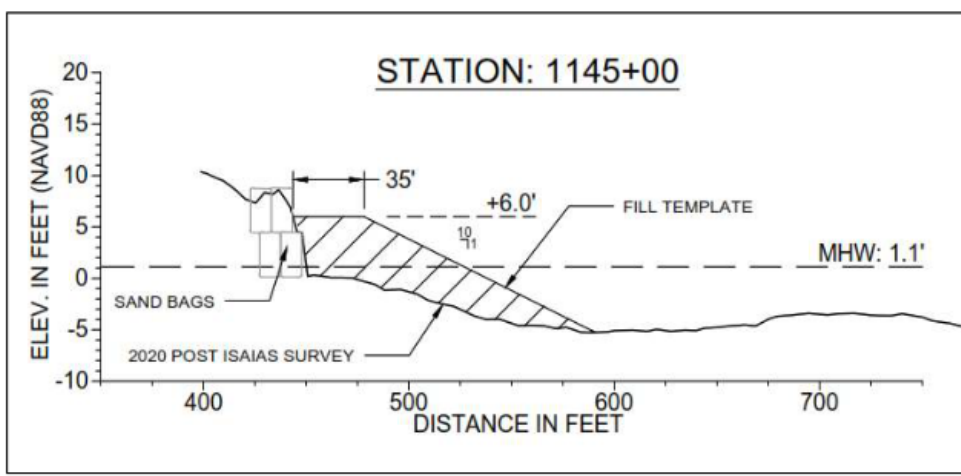


CONTRACTOR SHALL CONSTRUCT THE BACKSLOPE TO THE NATURAL ANGLE OF REPOSE.

2. NORTH TOPSAIL BEACH AND THE INLET BEACH ARE CONSIDERED SUITABLE HABITAT FOR SHORE BIRDS AND SEA TURTLES. ALL WORK ON THE BEACH (INCLUDING PIPE REMOVAL) SHALL BE COMPLETED BY 31 MARCH 2023. (SEE PARAGRAPH ENVIRONMENTAL WINDOWS OF SECTION 01 27 14 OF THE SPECIFICATIONS FOR ENVIRONMENTAL WINDOWS AND RESTRICTIONS.)



Permitted Nourishment NON-COBRA Areas in Phase 1 Beach (not Dune) Truck Haul Nourishment



Phase 1 Truck Haul Nourishment
(yellow)
To Augment USACE Nourishment

Phase 1 Nourishment
Full 45,000 CY
Permitted Template
Shown (Does not
reflect USACE fill
project changes)

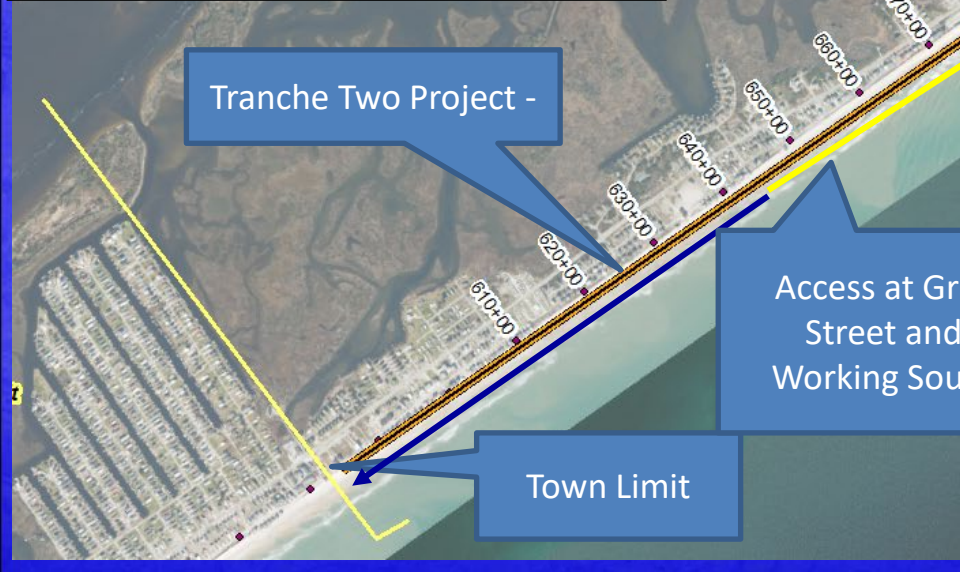
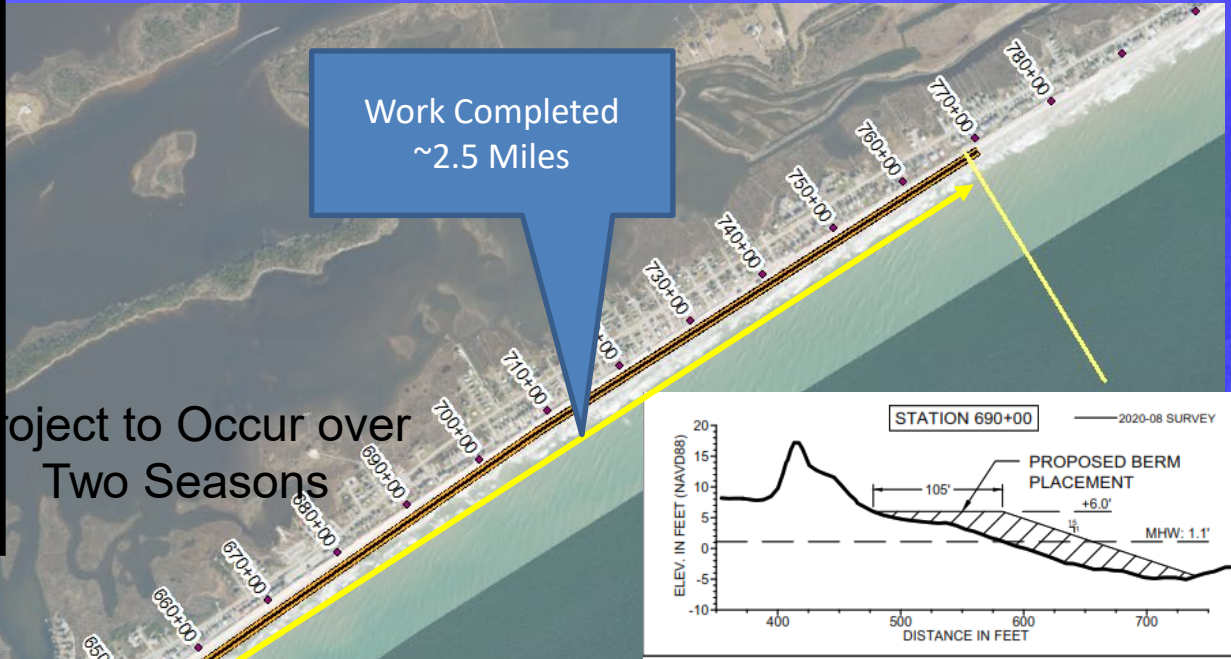
USFWS Coastal
Barrier

Resources Act Unit

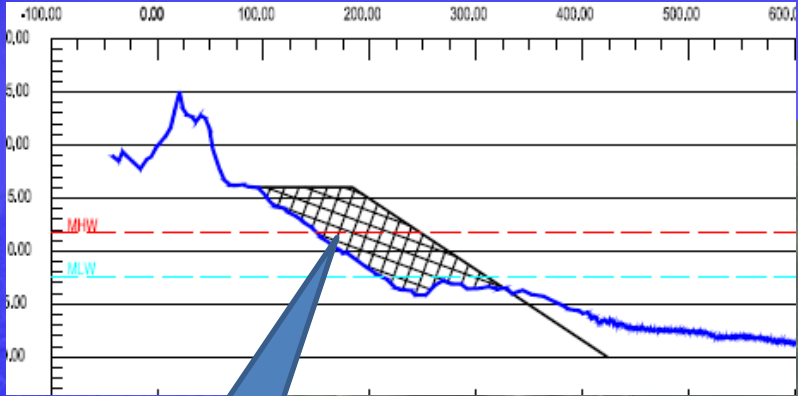
Phase 1 Truck Haul Extension
South to ~St. Regis

- Phase 1 Nourishment – 15,000 cy FEMA funded

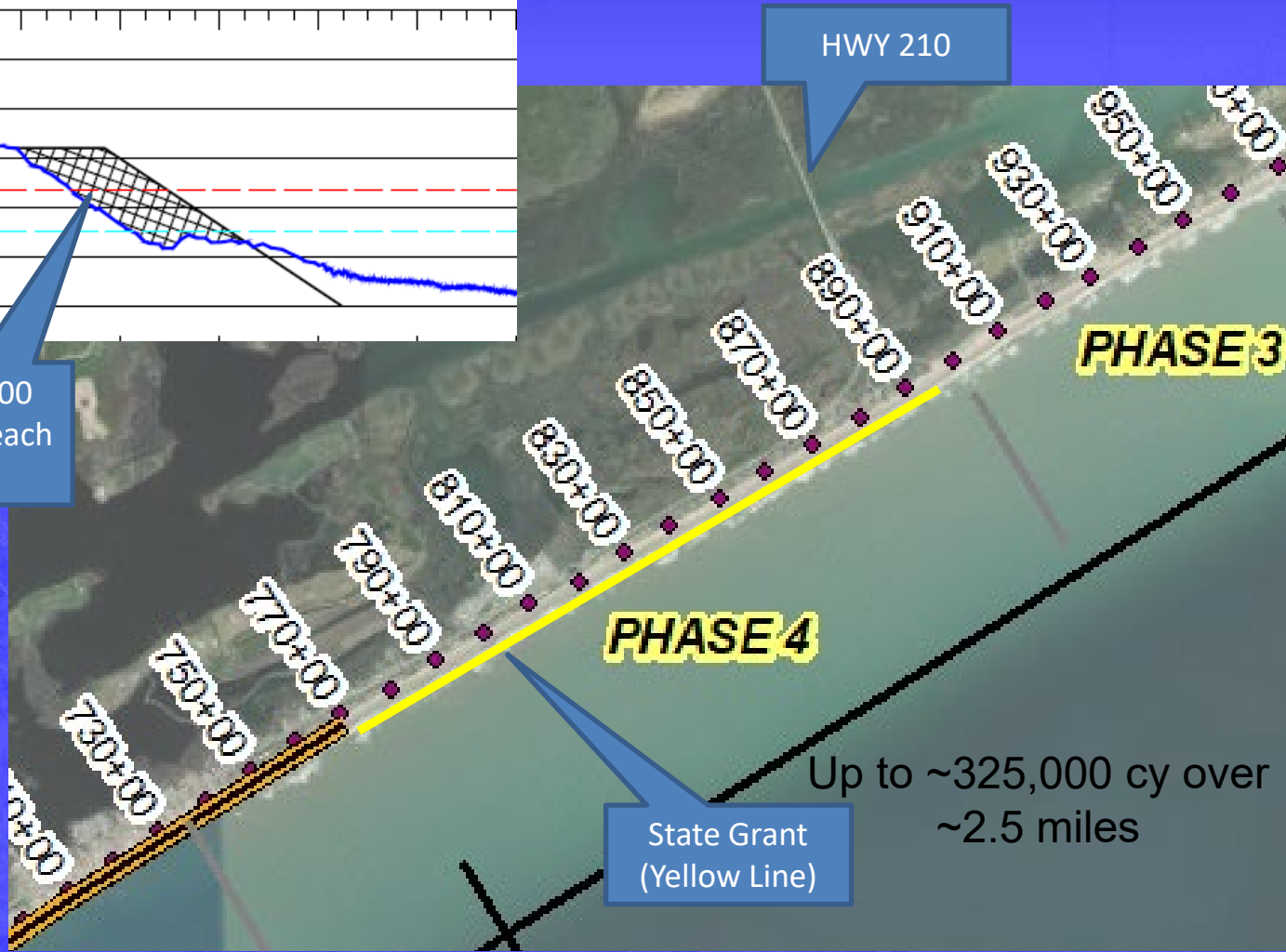
Ongoing Florence & Dorian Nourishment in Phase 5 Beach (not Dune) Nourishment. Over ~2.5 Miles of New Beach



Successful State Grant in Phase 4. Beach (not Dune) Nourishment



~80 to 100 Feet of Beach Width



PHASE 4

PHASE 3

State Grant
(Yellow Line)

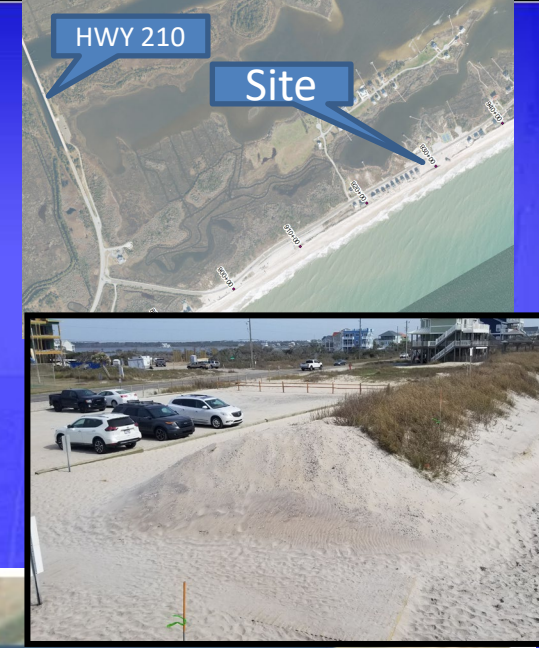
Up to ~325,000 cy over
~2.5 miles

Project to Occur Next Season –
Permitting Ongoing

County Beach Access Dune Rehabilitation



Figure 1: Dune Material Placement (photo taken February 3, 2021).



~859 cy of Gravelly Sand

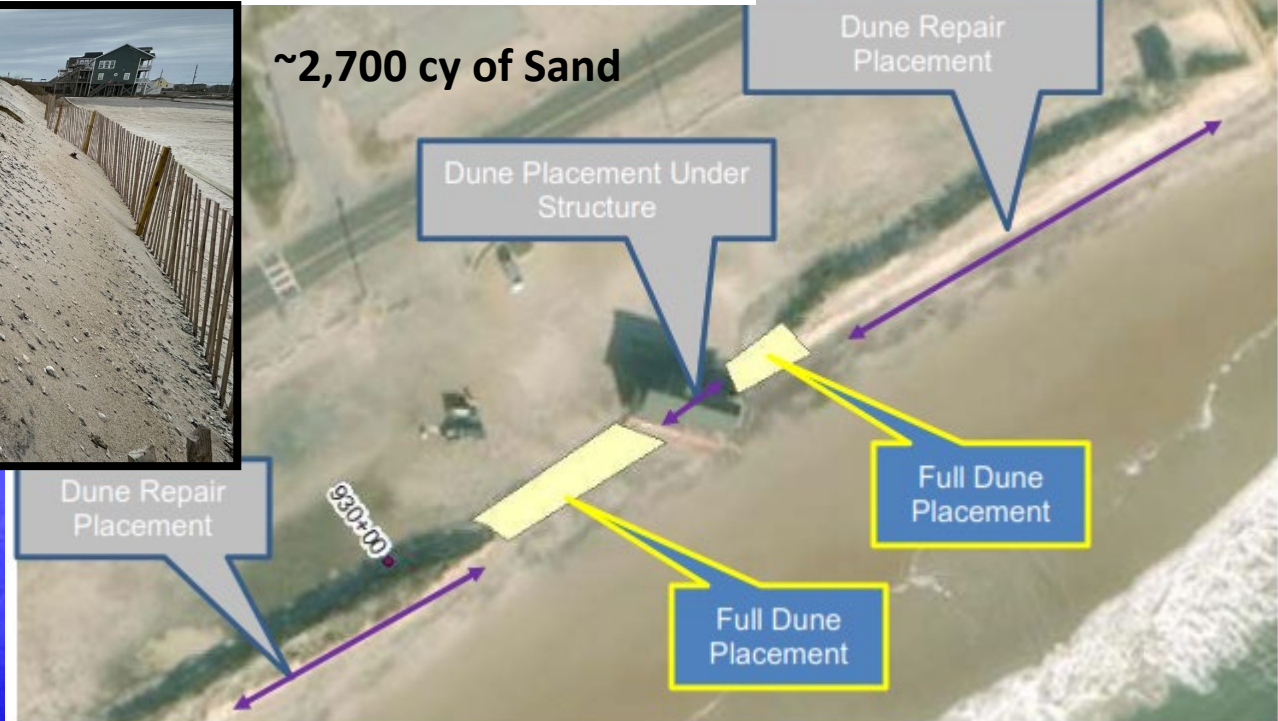


Figure 2: Plan view dune placement schematic.

Town Beach Projects Updates

- USACE AIWW/Channel Dredging and Phase 1 Placement Completed in Mid March - ~160,000 cy
- Hurricane Dorian Phase 1 FEMA Category G (~15,000 cy) near Topsail Reef Villas and ~45,000 cy permitted (Nov 16, 2022, to April 14, 2023, with time extension).
- New River Inlet Management Master Plan EIS: Notice of Intent (NOI) has been published.
- County Beach Access 4 – Gravelly Sand Mitigation
- State Grant Nourishment (Phase 4 and connects with Phase 5 Truck Haul)
- Phase 5 Beach Nourishment – Placed ~350,000 cy and now working south from the Gray Street access (work to continue to April 30)
- Working with NTB Finance Officer and DEC Associates regarding funding for FEMA and State funded projects
- Permitting Coordination (all projects)

