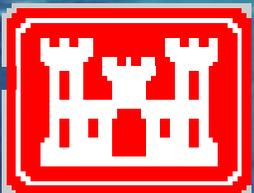


Working Group Report on Florida Keys Carrying Capacity Study and Interim Operational Plan



Jacksonville District
U.S. Army Corps of Engineers
March 2002

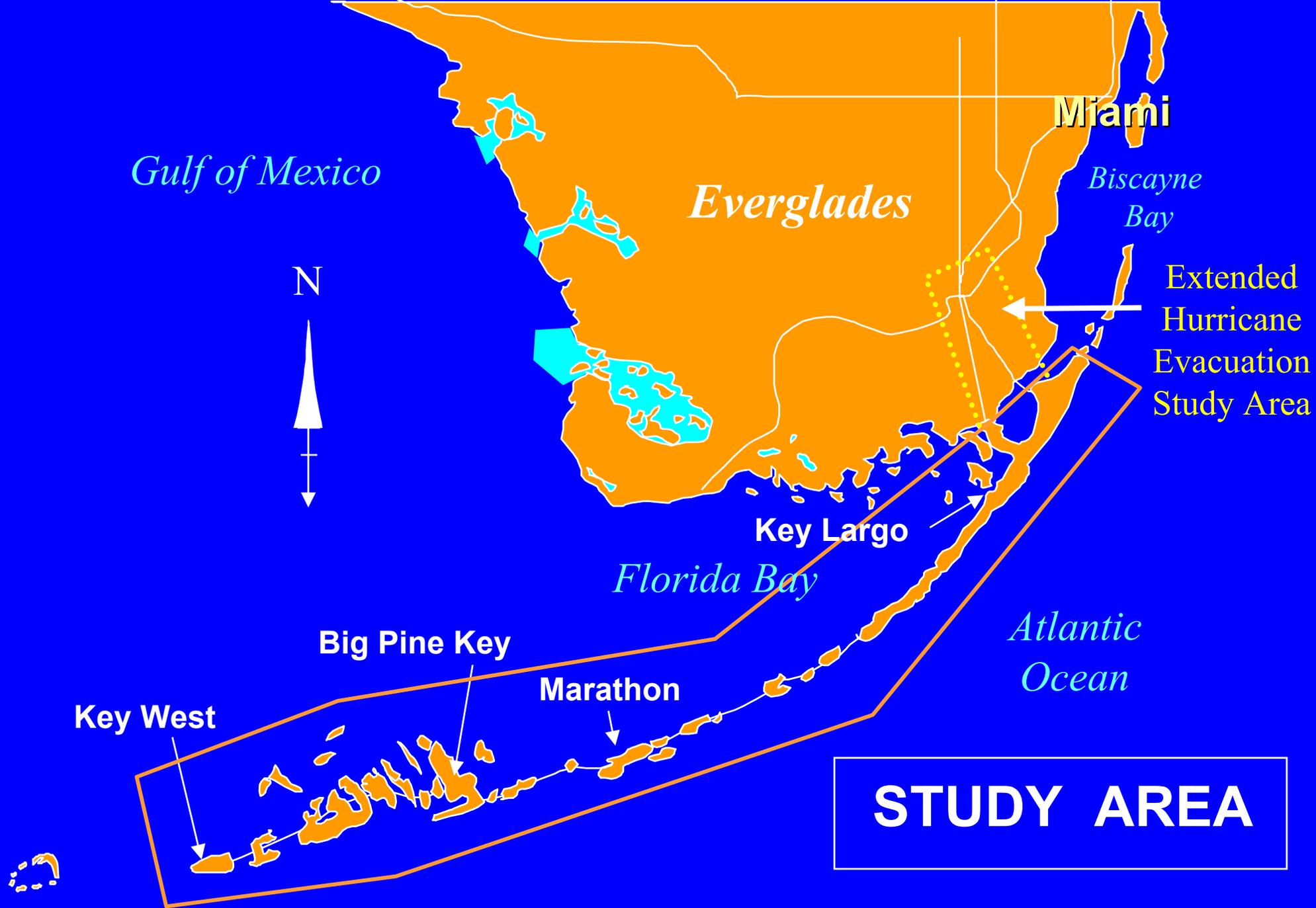


US Army Corps
of Engineers
Jacksonville District



Florida Keys Carrying Capacity Study





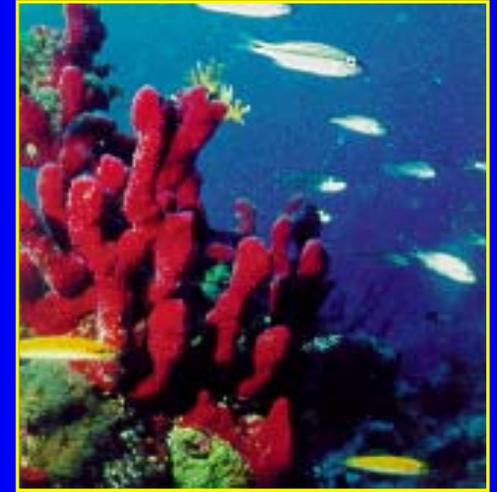
STUDY PARTNERS

- **Florida Department of Community Affairs**
Florida Administration Commission Rule 28.20-100
- **U.S. Army Corps of Engineers**
Water Resources Development Act of 1996
- **Monroe County / Local Municipalities**

STUDY GOAL

**Determine the Ability
of the Florida Keys Ecosystem
to Withstand All Impacts
of Additional Land Development Activities**

THE STUDY WILL NOT

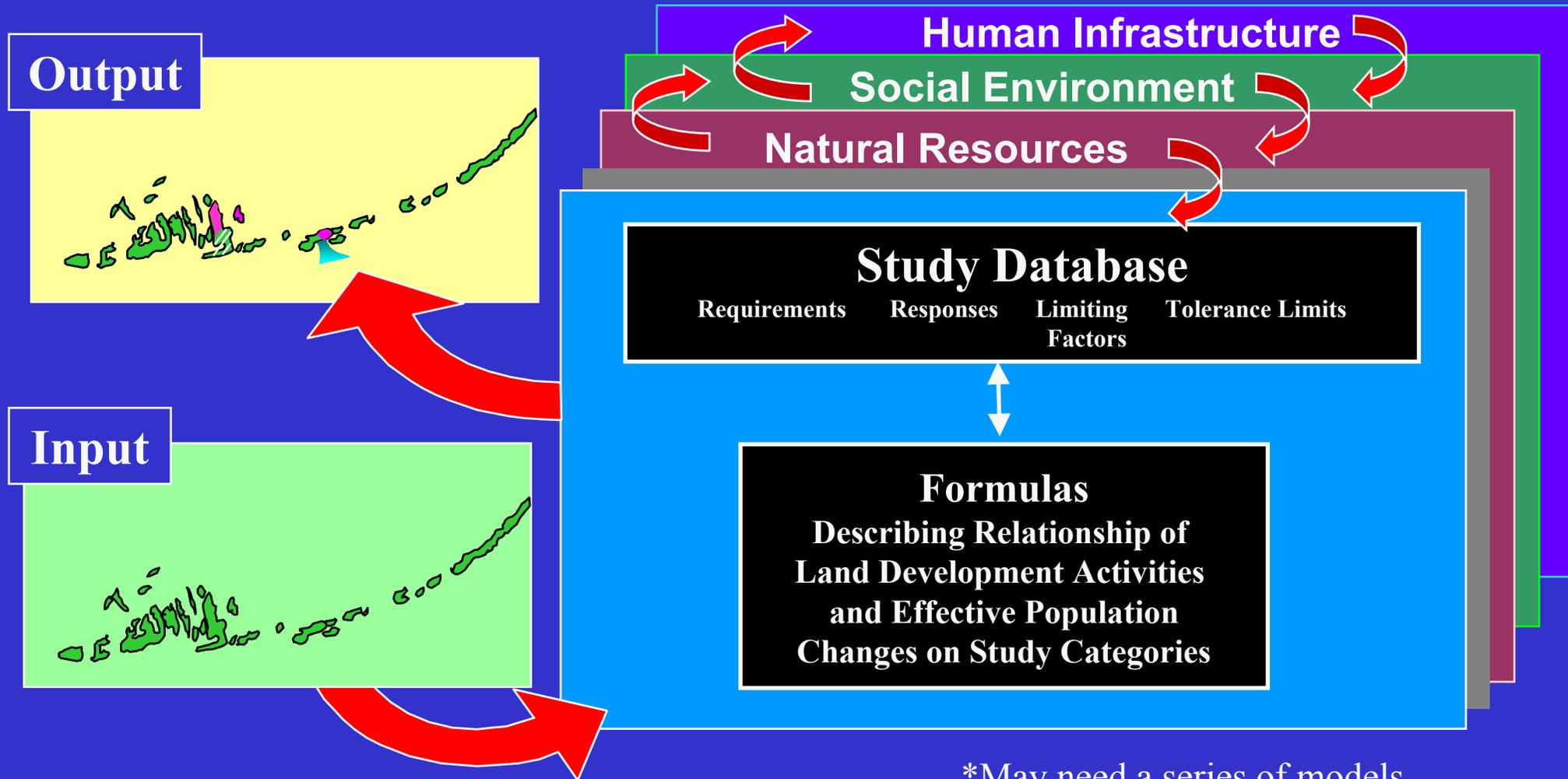


- **Recommend a Scenario as “the Best”**
- **Provide a Number of Human Population Representing the Carrying Capacity of the Florida Keys**

STUDY OBJECTIVES

- **Develop Knowledge Database/Planning Tool**
- **Describe Requirements, Responses, Limiting Factors, Tolerance Limits (if possible) for Study Categories**
- **Develop Relationship(s) Describing Impacts of Land Development Activities on Study Categories**
- **Public Information/Involvement Program**
<http://www.saj.usace.army.mil/projects/proj4.htm>

KEYS CARRYING CAPACITY ANALYSIS MODEL(S)*



*May need a series of models

STUDY APPROACH

(Using Adaptive Study Management)

TECHNICAL WORKSHOPS

Framing
MAY, 99

Mobilization
JUNE, 99

Ecosystems
JULY, 99

Species of Concern
AUG, 99

Wastewater
AUG, 99

Stormwater
SEP, 99

Water Circulation/
Quality Model
OCT, 99

Carrying Capacity
Analysis Model
NOV, 99

Scenario Development
Workshop
JAN, 00

Dames & Moore

DO₁

DO₂

DO_x

Collect / Populate Databases &
GIS Coverages / Build CCAM

Finalize CCAM

Wrap up Workshop
JAN 9 - 10, 2001

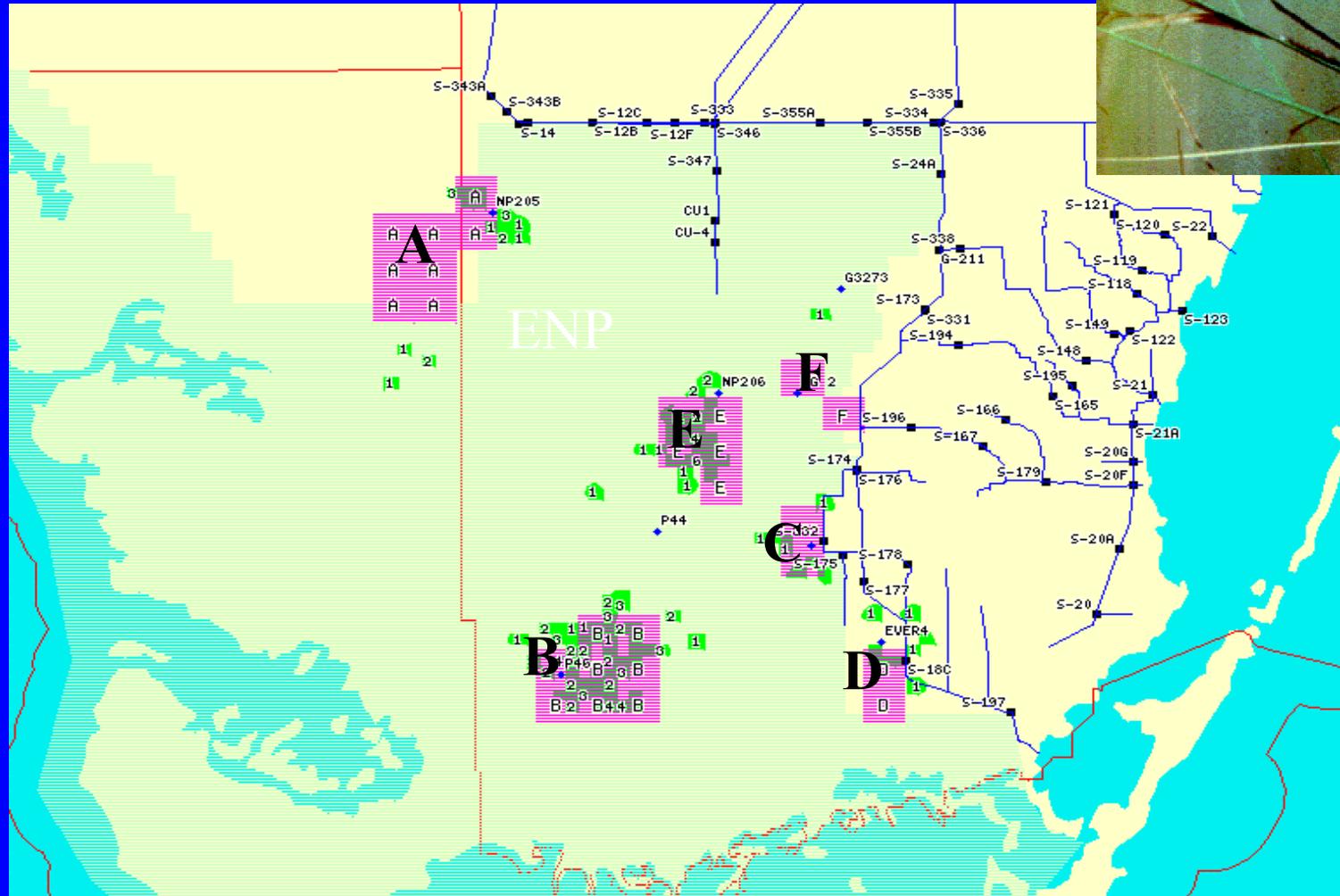
Peer Review

Quarterly Updates

Where are we?

- **Draft FKCC Model has been undergoing extensive review by study team and by the NAS**
- **Mar 02 – NAS Report Due**
- **Apr 02 – Public Workshops**
- **Jun 02 - Final CCAM/Technology Transfer to Sponsor**

Interim Structural and Operational Plan



Proposed Interim Operational Plan

- **L-31N Canal Levels - Two Modes of Operation**
 - When bypassing water from WCA-3A slight increase in canal levels above ISOP but less than Test 7 Phase 1
 - When not bypassing water, levels up to Test 7 Phase 1 levels, similar to levels of 3 years ago
- **Removal of southern 4 miles of L-67 ext levee**
- **Modifications to S-333 to increase discharge capacity**
- **Pre Storm Draw down Operations**

Accelerated Construction of C-111 and MWD Features

- **Construction of temporary pump station at S-332C location – 575 cfs pump**
- **Construction of temporary detention basin for S-332C**
- **Construction of temporary connecting buffer area between S-332B and S-332C**
- **Construction of S-332D detention basin**
- **Construction of additional S-332B detention area**
- **Construction of temporary S-356 pump station with 500 cfs capacity discharging into L-29**

Figure 2-1: Project Overview Map

Prepared by the U.S. Army Corps of Engineers

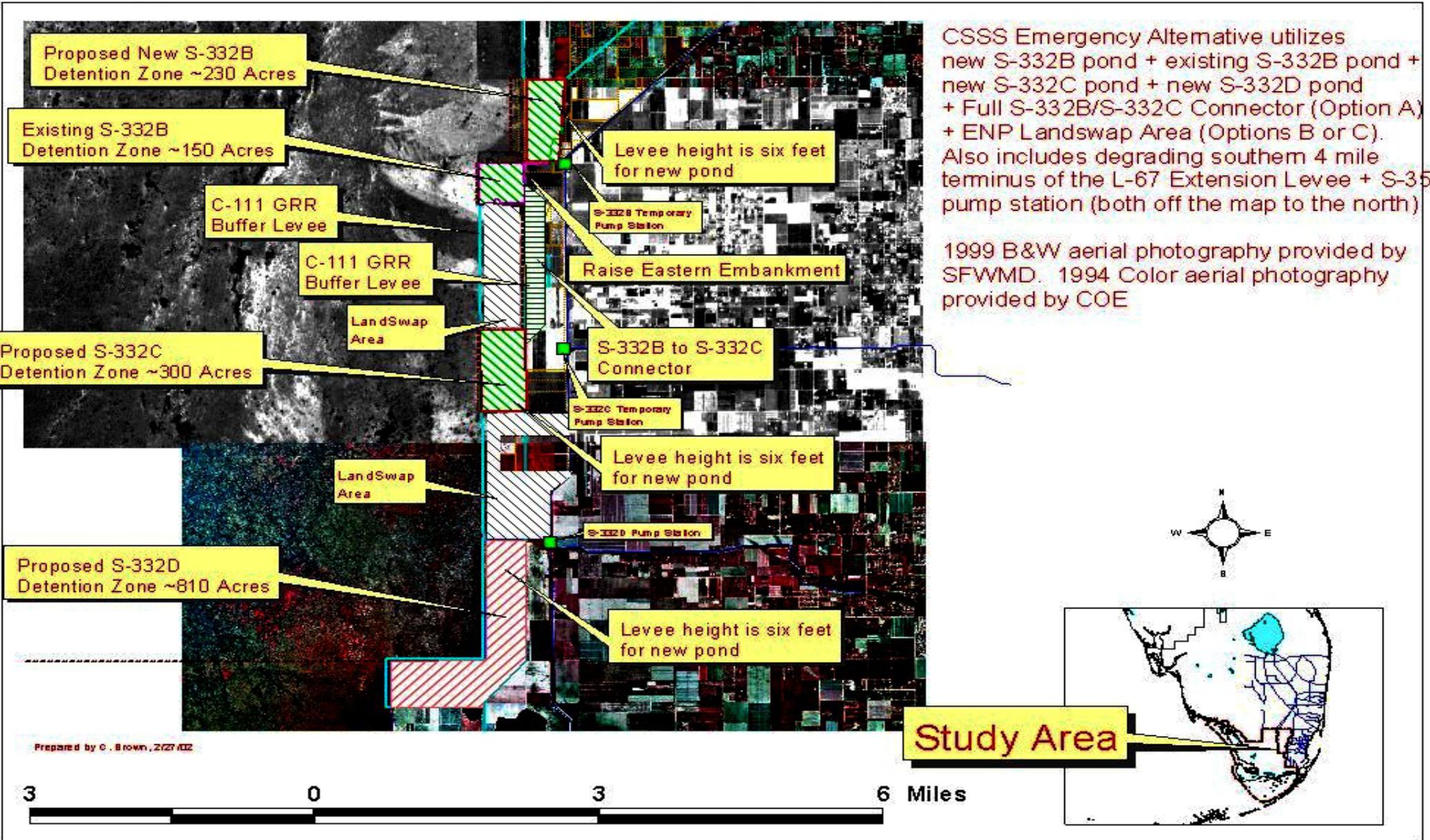
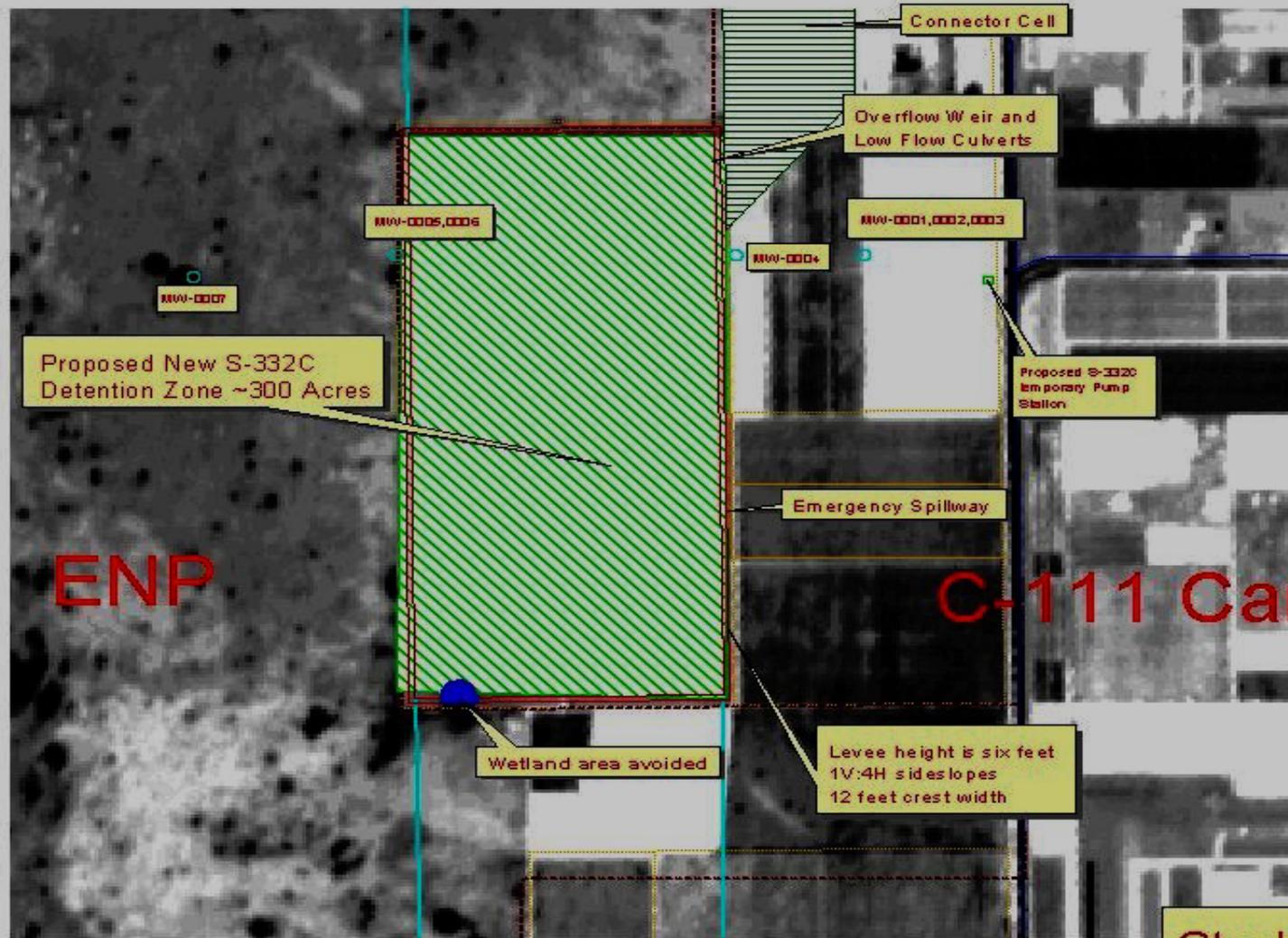


Figure 2-3: S-332C Project Area Prepared by the U.S. Army Corps of Engineers

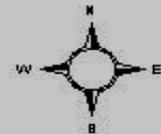


CSSS Emergency Alternative features on this map include the new S-332C temporary pump station + new S-332C pond + the southern portion of the S-332B/S-332C Connector

1999 B&W aerial photography provided by SFWMD. 1994 Color aerial photography provided by COE

LEGEND

-  Parcel boundaries
-  New S-332C Pond levee
-  Proposed groundwater monitoring well



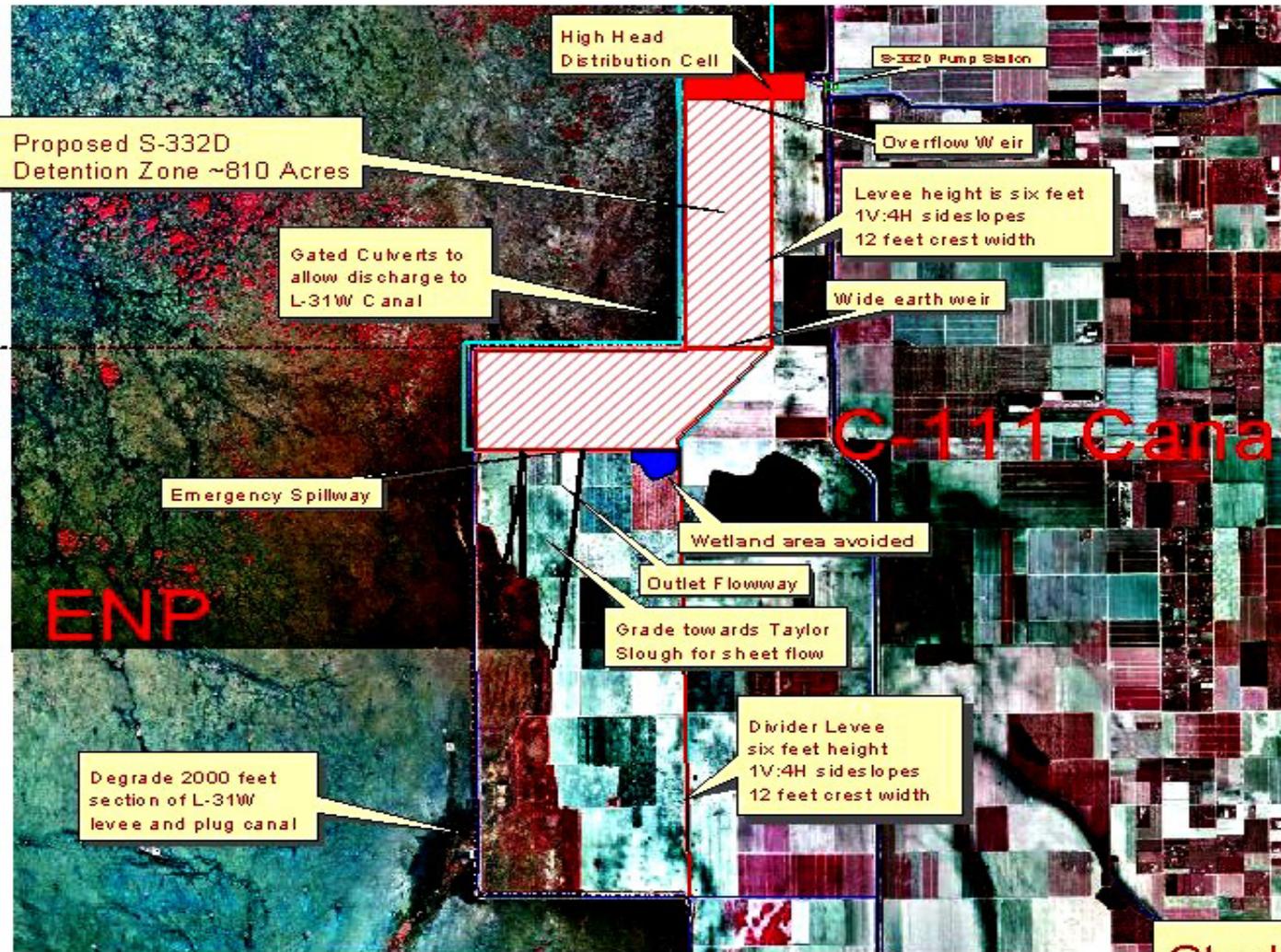
ENP

C-111 Canal

Prepared by C. Brown, 2/27/02



Figure 2-4: FrogPond/S-332D Project Area Prepared by the U.S. Army Corps of Engineers

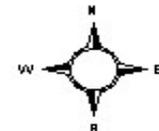


CSSS Emergency Alternative features on this map include the new S-332D pond

1999 B&W aerial photography provided by SFWMD. 1994 Color aerial photography provided by COE

LEGEND

-  Parcel boundaries
-  New S-332D Pond levee



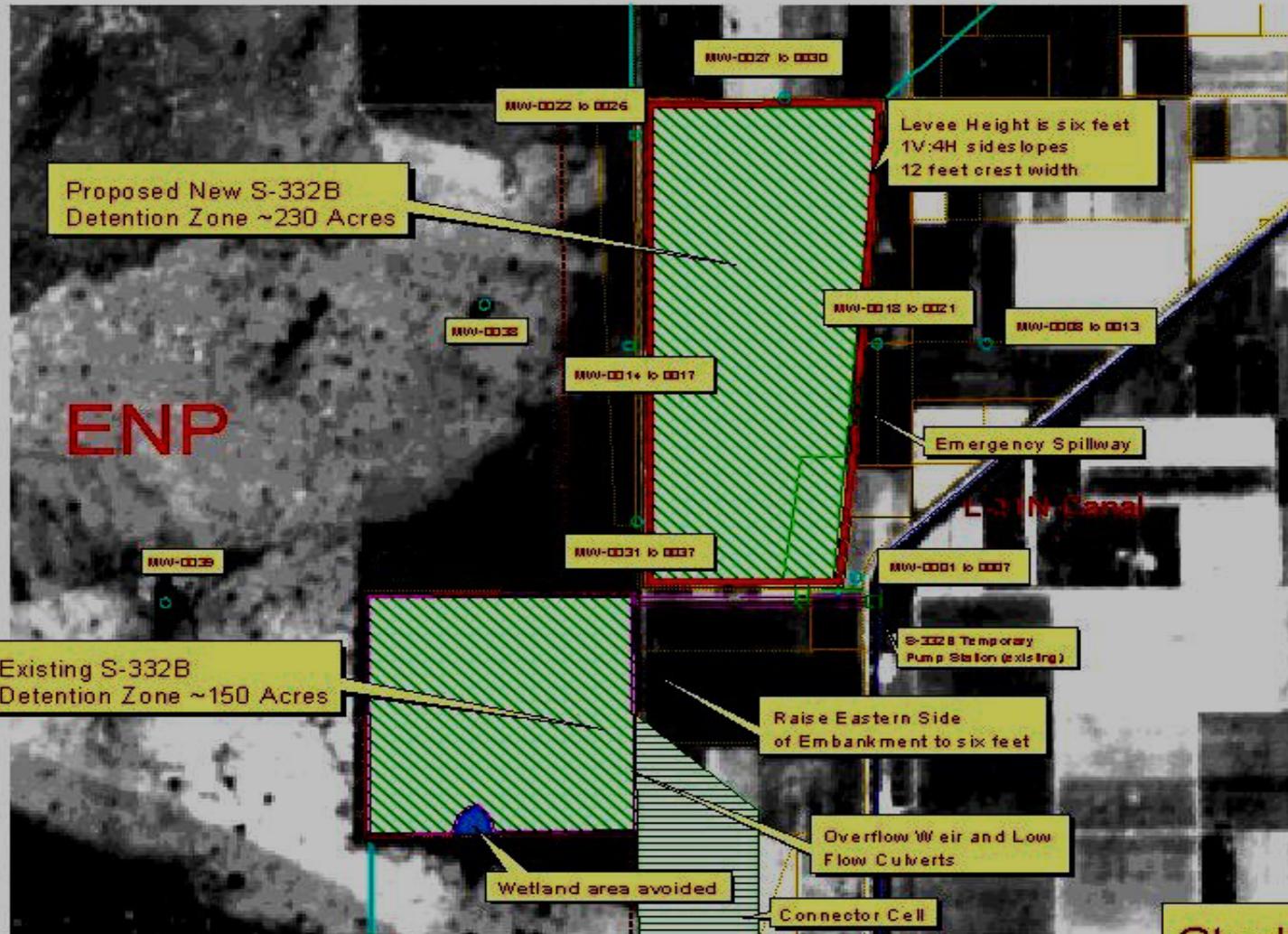
Study Area

Prepared by C. Brown, 2/27/02



Figure 2-2: S-332B Project Area

Prepared by the U.S. Army Corps of Engineers

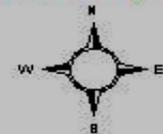


CSSS Emergency Alternative features on this map include the new S-332B pond + existing S-332B pond + the northern portion of the S-332B/S-332C Connector

1999 B&W aerial photography provided by SFWMD. 1994 Color aerial photography provided by COE

LEGEND

-  Parcel boundaries
-  New S-332B Pond levee
-  Existing S-332B Pond levee
-  Proposed groundwater monitoring well



Prepared by C. Brown, 2/27/02



Next Steps

- **Mar 02 - Final IOP EIS**
- **Apr 02 - Public Comment Period**
- **May 02 - Record of Decision**
- **Mar – Apr 02 – Prepare NEPA document addressing pump operations and potential WCA 3B discharge for S-356**
- **Mar – Jun 02 – Complete modeling of IOP**
- **System operational on 1 July 02**

The Future - CSOP

- **Combined Structural and Operational Plan**
- **Being developed for operations with MWD and C-111 in place**
- **Facilitated Collaborative Process being employed with expanded interagency team**

Questions???

