Appendix A

Prototype Photo-Chart
Appendix B

Boater Survey Instruments

and Correspondence
November 2, 1998

Mr. Boater
Anywhere Street
Florida City
Florida

Dear Boat owner

We are asking you to participate in a boating study being carried out in southwest Florida by the University of Florida Sea Grant Program. We hope this study will benefit boaters by providing a model for redesigning the small-craft navigation chart which the federal government has been producing for close to one hundred years. Your name was drawn in a random sample of southwest Florida boaters.

The study is in two parts. This letter and questionnaire represents Phase one. Our objective in this part is to learn about how the coastal waters are being used by resident and transient boaters. In Phase 2, a volunteer group of boaters will be asked to use and evaluate prototype charts and guidebook materials. At the conclusion of this project, the information that you and others provide will enable us to estimate the degree to which new chart products are needed to meet the demands of the boating public.

We are providing you with a stamped self-addressed envelope to return the completed questionnaire. It will take about 15 minutes to fill-out. You may be assured of complete confidentiality. A stamped number on the questionnaire and postcard allows us to check your name off a mailing list. Your name will never be placed on these materials. Individual responses will never be reported, nor will any information be made available to any group soliciting goods and services to boaters. The questionnaire data will be stored at the University of Florida, under the supervision of the project Principal Investigator. There is no anticipated risk nor personal benefit to be derived from this information.

If you are interested in participating in Phase 2, please complete and return the enclosed card. Persons volunteering for Phase 2 will be asked to (1) utilize the project’s sample charts and guidebook materials, (2) maintain a log of their use of these materials during the January-April 1999 test period, and (3) complete an evaluation of the sample products at the end of the testing in May 1999. Please and return the enclosed postcard indicating your decision to participate in Phase 2.

We are most grateful for your assistance in this important project. Thanks for your cooperation.

Gustavo A. Antonini
Professor and Senior Scientist
Agreement to Participate in Chart Product Evaluation

Boater volunteers agreeing to participate in Phase 2 of this project will be asked to (1) use, (2) comment on, and (3) evaluate prototype chart products during 15 January - 15 April 1999. Only individuals who boat between Anna Maria and Gasparilla Sound should volunteer (test products only cover this 50 mile area). Volunteers will receive in early January the prototype chart materials along with instructions for recording comments. Please be sure the address you provide below is correct for the early January mailing. Thank you.

Volunteer Name: _______________________________

Address: _________________________________

City, State, Zip _______________________________
The How, When and Why of
Recreational Boating
In Southwest Florida

A survey conducted by the Florida Sea Grant Program
at the University of Florida
in collaboration with
the National Oceanic and Atmospheric Administration (NOAA)
Coastal Services Center and Marine Chart Division

November 1998

B-4 – B-16
SOUTHWEST FLORIDA BOATER SURVEY

1) In what type of vessel do you spend most of your boating time? Please check one of the following

- Kayak, Canoe or Rowboat (non-motorized)
- Auxiliary powered sailboat
- Sail only
- Skiff, Speedboat, Open-utility, John-boat, or Pontoon boat
- Personal watercraft (e.g., jet-ski)
- Power cabin, Trawler or Houseboat

2) My boat is:

<table>
<thead>
<tr>
<th>Make</th>
<th>Model</th>
<th>Year</th>
</tr>
</thead>
</table>

3) My boat's draft is _____ (feet). Note For sailboats with keel/centerboards please give draft:

- With centerboard up
  - _______ ft
- With centerboard down
  - _______ ft

For powerboats with outboards or outdrives, please give draft with:

- Lower unit down
  - _______ ft
- Lower unit partially raised to maintain steerage over shoals
  - _______ ft

4) When not in use my boat is kept

- Permanent Mooring (Anchorage) maintained by Private Marina
- Permanent Mooring (Anchorage) maintained by local municipality
- Permanent Mooring (Anchorage) maintained by myself
- Marina Slip maintained by Private Marina
- Marina Slip maintained by local municipality
- Private slip
- Yacht Club Slip
- Dry Stack Storage
- Trailered/cartopped from my home
- In the Garage
5) Is your vessel? (Please check one of the following)

   _____ Registered (State decal)
   _____ Documented (Federal i.e. U.S. Coast Guard)
   _____ Unregistered

6) In which state is your vessel registered? ____________________________

7) Do you keep your boat in the water?

   _____ Yes        _____ No

8) If your boat is kept in the water, where?

   ______________________ Waterbody   ______________________ Municipality   ______________________ County

The following questions include information about your boating activities, manner of use, and the type of navigational/piloting equipment you routinely use while on the water.

9) How long have you been boating? (Please check one of the following)

   _____ less than one year
   _____ 1-4 years
   _____ 5-9 years
   _____ more than 10 years

10) Are you a Florida resident?

    _____ Yes        _____ No

11) For Florida residents how many years have you been boating in Florida

    _____ years

12) Are you visiting Florida

    _____ Yes        _____ No

13) If you answered yes to question 12, how many years have you been in Florida visiting with a boat?

    _____ years
14) What time(s) of the year do you normally boat in Southwest Florida?
   ______ Year-round
   ______ Winter: From ______ (month) to ______ (month)
   ______ Spring: From ______ (month) to ______ (month)
   ______ Summer: From ______ (month) to ______ (month)
   ______ Fall: From ______ (month) to ______ (month)

15) Is the boat you are using now
   ______ owned by you
   ______ chartered/rented/leased/borrowed

16) If you own your own boat how long have you owned it?
   ______ Months
   ______ Years

17) How often do you take a boat out on the average (whether you own, rent or borrow?)
   ______ once a week
   ______ every other week
   ______ 3 – 5 times a week
   ______ once a month
   ______ every other month
   ______ quarterly
   ______ twice a year

18) In what months are you most likely to take your boat out?
   ______ Jul ______ Aug. ______ Sep. ______ Oct. ______ Nov ______ Dec

19) How many days ago did you last take your boat out?
   ______ days

20) For daytrips, how long do you stay out when you participate in your most favorite boating activity?
   ______ hours
21) What proportion of your boating activity takes place on:
   Please write down percentage of time
   _____ Weekdays
   _____ Week-ends
   _____ Holidays
   100% Total

22) What are your top three most favorite boating activities? Please chose from the following list? (Please use #1 for your most favorite activity, #2 for your second most favorite and #3 for your third most favorite activity)
   _____ daysailing
   _____ cruising
   _____ day racing
   _____ ocean racing (involving at least one overnight stay onboard)
   _____ fishing (deep sea)
   _____ fishing (inshore)
   _____ diving for sightseeing
   _____ diving for fishing
   _____ wreck diving
   _____ speedboating
   _____ skiing
   _____ canoeing/kayaking/rowing
   _____ other (please specify)

23) Using your top three selected boating choices, (question 22) what proportion of your total boating time do you spend with each?
   Percent
   _____ daysailing
   _____ cruising
   _____ day racing
   _____ ocean racing (involving at least one overnight stay onboard)
   _____ fishing (deep sea)
   _____ fishing (inshore)
   _____ diving for sightseeing
   _____ diving for fishing
   _____ wreck diving
   _____ speedboating
   _____ skiing
   _____ canoeing/kayaking/rowing
   _____ other (please specify) __________________________
   100% Total
24) When you boat (as opposed to anchor) which of the following considerations are important to you in deciding where to boat?

Please check all

- protected waters
- observing wildlife
- scenic beauty
- clean water
- tranquility
- challenging navigation
- calm waters
- absence of other boaters
- fishing opportunities
- diving opportunities
- other (please specify)

25) From the list of the checked items in question 24, please select the five most important conditions and rank each of your five choices in descending order of importance.

most important
second most important
third most important
fourth most important
fifth most important

26) When you anchor (as opposed to boat) which of the following considerations are important to you in deciding where to anchor? (Please check all that apply).

- storm protection
- bottom holding
- scenic beauty
- environmental conditions
- clean water
- tranquility
- local hospitality
- fishing opportunities
- beachcombing
- access to supplies
- other, (please specify)

- marina, fuel, pumpout
- shoreside park
- camaraderie
- dinghy sailing
- swimming
- rowing
- skiing
- sailboarding
- access to shore entertainment
- isolation
From the checked items in question 22, please select the five most important anchoring considerations and rank each of your five choices in descending order of importance

most important
second most important
third most important
fourth most important
fifth most important

27) When boating which of the following navigation/piloting tools do you use (Please check all that apply)

- [ ] NOAA small craft navigational chart
- [ ] cruising guides
- [ ] Local Notice to Mariners
- [ ] Tide Tables
- [ ] compass
- [ ] Loran
- [ ] Radar
- [ ] GPS
- [ ] SatNav
- [ ] depthfinder
- [ ] fishfinder
- [ ] electronic chart display system
- [ ] autopilot
- [ ] knotmeter
- [ ] binoculars
- [ ] course plotter
- [ ] dividers
- [ ] parallel rulers
- [ ] deviation table
- [ ] lead line
- [ ] other

28) Which of the following water and shore features do you use in piloting your boat (Please check all that apply).

- [ ] navigational aids (buoys, day beacons and lights)
- [ ] soundings
- [ ] shore buildings/structures
- [ ] coastal vegetation (trees and mangroves)
- [ ] other (please specify): _______________________________
29) Please rate your ability to do the following navigational/piloting operations, with one indicating excellent and five unable.

I read chart symbols: (Please circle one answer)

<table>
<thead>
<tr>
<th>Very Comfortable</th>
<th>Quite Comfortable</th>
<th>Comfortable</th>
<th>Not Very Comfortable</th>
<th>Not at all Comfortable</th>
</tr>
</thead>
</table>

I can locate features in the water: (Please circle one answer)

<table>
<thead>
<tr>
<th>Very Comfortable</th>
<th>Quite Comfortable</th>
<th>Comfortable</th>
<th>Not Very Comfortable</th>
<th>Not at all Comfortable</th>
</tr>
</thead>
</table>

I can locate features on the shore: (Please circle one answer)

<table>
<thead>
<tr>
<th>With Great Ease</th>
<th>With Ease</th>
<th>Routinely</th>
<th>With Some Difficulty</th>
<th>Can't do</th>
</tr>
</thead>
</table>

I can locate boats on the water

<table>
<thead>
<tr>
<th>With Great Ease</th>
<th>With Ease</th>
<th>Routinely</th>
<th>With Some Difficulty</th>
<th>Don't know How</th>
</tr>
</thead>
</table>

The next few questions describe hypothetical boating situations, some of which you may have actually encountered. Please indicate how you might deal with these situations.

30) When taking a family member or friend on your boat for the first time, do you try to orient them to the navigation rules (Rules of the Road)?

_____ Yes

_____ No

If no, please go to question 32

30) If you answered Yes to the previous question, do you: (please check all that apply)

_____ point out the safety features of the boat

_____ ask if your passenger feels comfortable on the water

_____ ask if your passenger can swim

_____ for non-swimmers, request that they wear a PFD

_____ explain channel markers

_____ show how to dispose of trash

_____ show how to operate the marine sanitation device (head)

_____ explain when and where not to flush
32) It is late afternoon and a squall line is approaching from the Northwest. The NOAA regional weather forecast has issued a severe storm warning for the next three hours. Your present position would not enable you to reach a safe harbor before the storm. Your position on the map is designated by an X. Given these circumstances, what would you do? Please indicate your course immediately following the storm warning.

33) After a day’s boating activities you notice that the bilge water has a slight sheen on it. What would you do? (Please check all that apply)

- Stop pumping and apply an “oilabsorb” to the bilge
- Stop pumping in an effort to identify and secure the leak
- Continue pumping, but keeping the bilge water onboard for appropriate on-land disposal
- Continue pumping outside of the state’s coastal jurisdiction
- Continue pumping regardless of location

34) You are underway and you notice one of your passengers tossing a banana peel overboard. Do you:

- Continue on your course
- Double back trying to retrieve the banana peel
- Talk about what to do and what not to do while on the water
- Say nothing
35) You are underway and you notice one of your passengers tossing a beer can overboard. Do you

_____ Continue on your course

_____ Double back trying to retrieve the banana peel

_____ Talk about what to do and what not to do while on the water

_____ Say nothing

36) You are underway and one of your passengers loses his/her cap overboard. Do you: (Please check all that apply)

_____ Continue on your course

_____ Double back trying to retrieve the cap

_____ Talk about what you should or should not do on the water

_____ Say nothing

37) You are underway and you notice a large plastic bag partially inflated floating on the surface. The bag is located forward of your current course. What do you do? (Please check all that apply):

_____ Change course to avoid tangling with the plastic bag

_____ Remain on course

_____ Remain on course attempting to retrieve the bag

_____ Remain on course attempting to retrieve the bag, but missing the bag, doubling back making a second attempt to retrieve the plastic bag

38) Assume for the moment you have an outboard powered tender and that you are in a new anchorage moving from your vessel to the shore. About half way to the shore you are in shallow water area sea grass when the outboard engine feels the bottom and quits running. In your own words, please describe what you would do under those circumstances.
39) You are powering in a restricted speed zone at a speed at or below the speed limit. A vessel under power is overtaking you at a speed well above the limit. What would you do? (Please check all that apply)

[ ] Shake your head and with arm movements signal the skipper to slow down
[ ] Yell at him to slow down
[ ] Raise him on the radio and request that he slow down
[ ] Report the offending vessel to the Coast Guard by radio
[ ] Report the offending vessel to the Coast Guard if the opportunity arise
[ ] Pray and bite your nails!
[ ] Do nothing

40) You are anchored in your preferred anchorage and notice that a neighboring boat has just flushed the head. From the list below, please check those actions you would take.

[ ] Dinghy over and inform the captain that flushing the head in coastal waters is illegal
[ ] Report the incident to the local marine law enforcement officer if present
[ ] Raise the Coast Guard on the radio and report the incident
[ ] Raising the offending vessel on the radio and inform the skipper about the discharge
[ ] Do nothing

41) You have arrived at your destination and dropped anchor. A short while later you discover that the boat is dragging anchor. Upon retrieving the anchor you notice that the anchor flukes are covered with seagrass. Please describe what you would do under those circumstances.
42) You are under power in close proximity to a mangrove shoreline and you discover two manatees swimming on the surface in the approximately the same direction you are moving. In your own words, describe what you would do.

43) You are traveling in the Gulf Intracoastal Waterway at between 7 and 8 knots and you are entering a speed restricted zone marked "No Wake Zone, Reduce Vessel Speed to 5 Knots." What would you do?

- Proceed at 5 knots or less
- Proceed at current speed, but increase lookout
- Proceed at speed creating no wake whether or not the speed of the vessel is above or below 5 knots

Finally, we would like to ask you a few questions about yourself, so that we can better understand the range of boater needs and concerns. (All responses will be kept confidential).

44) What is the zip code of your permanent home address (5 digits only) _____

45) What is your gender (Please circle) M F

46) When were you born (Year): _____

47) Which of the following best describe your ethnic identity (Please check)

- White/Caucasian
- Black/African American
- Native American
- Other (Please Specify) ____________________________
- Don't care to answer this question

- Hispanic-American
- Asian-American
- don't know
48) Have you taken any boating courses?

_____ introductory boating safety and seamanship

_____ intermediate or advanced piloting and navigation

_____ I was trained by an experienced boater

_____ none of the above

49) How many years did you go to school: _______

50) What is your employment status?

_____ full time employed

_____ not retired, working part time

_____ retired but still working

_____ retired

_____ homemaker

_____ student

_____ unemployed

51) What was your total household income (before taxes) in 1997 (Please check)

_____ less than $10,000/year

_____ $10,000 - $14,999/year

_____ $15,000 - $19,999/year

_____ $20,000 - $29,999/year

_____ $30,000 - $39,999/year

_____ $40,000 - $49,999/year

_____ $50,000 - $74,999/year

_____ $75,000 - 99,000/year

_____ $100,000 - $149,999/year

_____ $150,000 - $199,000/year

_____ $200,000 - $499,000/year

_____ $ over $500,000

_____ have no idea

_____ don't want to answer

PLEASE RETURN QUESTIONNAIRE IN THE ENCLOSED POSTAGE-PAID ENVELOPE

THANK YOU FOR YOUR COOPERATION
November 11, 1998

Dear Boatowner

Last week we sent you a questionnaire seeking information on your boating activities as part of a project which will help NOAA's Marine Chart Division design a more utilitarian small-craft navigational chart.

If you have already completed and returned the questionnaire to us, please accept our heartfelt thanks. If not, we ask you to do so today. Because the questionnaire was sent to a small, but representative, sample of boaters living in Sarasota, Charlotte and Manatee Counties, it is extremely important that your questionnaire also be included in the study if the results are to accurately represent the boating activities in southwest Florida.

If by some chance, you did not receive the questionnaire, or if it got misplaced, please call us right now, collect, at (352) 392-6233, and we will get another questionnaire in the mail to you today.

Sincerely,

Gustavo A. Antonini
Professor and Project Scientist
February 12, 1999

Dear Boater,

Thank you for agreeing to participate in this important project. And, please accept our apology for the several-weeks delay in getting these products to you; many are "hot-off-the-press". We believe your use and evaluation of the enclosed materials will make a very important contribution to the next generation of NOAA's small-craft navigation charts and related boater information materials.

The following materials are enclosed with this letter:

1. Prototype photo-chart (which covers the area of NOAA Small-Craft Chart 11425 and is not intended for navigational purposes);
2. NOAA's conventional Small-Craft Chart 11425;
3. Six place-mat size photo-maps of
   Emerson Point and DeSoto Point, Manatee River;
   Longbeach/Longboat Pass;
   Buttonwood Harbor;
   Big Pass/Otter Key;
   Sarasota/Island Park;
   Boca Grande/Grand Bayou;
4. A Guide to Anchorages in Southwest Florida, 1st Ed. (2nd Ed. will be sent to you shortly);
5. Rec-Op Map (Sarasota Bay Blueways: Recreational Opportunities for the Boater (pocket guide);
6. Florida Sea Grant web site home page for southwest Florida anchorages
   http://flseagrant.org/ANCHOR.HTM;
7. Volunteer Trip Log;
8. Pre-Paid Postcard (which we request that you fill out and return now, indicating your mailing address, different from your current address. to which we can send in mid-April the Evaluation Questionnaire).

How will this study component function? We hope you will use the enclosed materials during the February - March 1999 test period, both for trip planning as well as when underway. We also ask you to use the Volunteer Trip Log to record when and how you use the enclosed products. The log provides you with a format on how to record your use of the materials.

In early April, we will mail to you an Evaluation Questionnaire. This will provide you with an opportunity to evaluate the existing prototype products and make recommendations on additional information which you think should be included. The only items we will request that you to return to us in mid-April are the Volunteer Trip Log and the Evaluation Questionnaire. All other materials are yours to keep.

Your response, together with the approximately 500 other boater responses, will be carefully analyzed, summarized and forwarded to NOAA. The combined experience of our project volunteers - power-boaters and sailors, individuals new to boating as well as more experienced boaters - will enable us to recommend to NOAA ways to improve the Small-Craft Chart for use in the 21st century. The contribution of each volunteer is very important.

We sincerely hope that you will find the enclosed materials useful, interesting and fun to use. Should you have any questions or concerns, we urge you to contact us by phone, letter or email. If you call and do not receive an answer, please leave a message where you can be reached and we will call you within 24 hours.

B-18
Alternate Mail Address for Chart Product Evaluation

It is important that we be able to correspond with you during the survey period (February - May, 1999). We will assume that this address, which you provided on the original volunteer card, is your permanent mailing address. However, please fill out the information below and return this card if you would like to receive future correspondence at an alternate address.

Volunteer Name: __________________________
Address: ________________________________
City, State, Zip: __________________________
Date to begin correspondence
at alternative address __________________________
Dear boat owner:  

March 30, 1999

Several weeks ago we sent you a package of prototype boating information materials and instructions for maintaining a trip log. This postcard is simply to remind you about the importance of maintaining a record of how you use the information for the upcoming evaluation, which will be mailed to you in May. If you have not received the materials, or have any questions on the materials, or if your mailing address will change in late April or early May, please call or write and let us know. Our telephone number is (352) 392-6233. Leave a message and we will promptly call you back.

Thank you again, for your participation in this important project.

Sincerely,

Gustavo Antonini  
Professor and Senior Scientist
May 4, 1999

Dear Volunteer Boater

We have come to that part of the Boating Study where we ask you to evaluate the prototype photo-chart, maps and guide materials which were sent to you in early February. The enclosed yellow-colored questionnaire will allow us to collect your critique in a step-by-step manner and will enable each of you to be part of the evaluation and editorial team. We intend to provide the National Oceanic and Atmospheric Administration (NOAA/ National Ocean Service) with the results of your collective evaluations for revising the small-craft navigation chart and improving its information service to the recreational boating community.

The questionnaire is divided into four parts: (1) General; (2) Prototype Photo-Chart, including Navigation Chart, Environmental and Boating Information Map Panels, and Supplemental Boating Information Tables and Diagrams; (3) Other Information Products, including Recreational Opportunities Map, Plate-Mat-Photo-Maps, Anchorage Guidebook, and Anchorage Web-Site1; and (4) Other Comments. You may wish to refer to your Volunteer Trip Log in answering some of these questions. Please return the yellow questionnaire and your volunteer trip log in the enclosed postage-paid envelope.

We are enclosing a complementary copy of the just-published 2nd Edition of "A Guide to Anchorages in Southwest Florida. You'll note that this edition includes several new features, namely fourteen photo-maps and various tables that outline anchorage site characteristics.

We also enclose a flyer announcing the forthcoming publication of an 80-page, full color atlas entitled "A Historical Geography of Boating in Southwest Florida", which we will mail to you if you complete and return the Trip Log and Evaluation Survey. Please take a little time to complete the survey and help influence the type of boating information that will soon be distributed around the country. Your assistance is greatly appreciated.

Gustavo Antonini
Professor and Project Senior Scientist

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1 The address is www.flSeaGrant.ANCHOR.HTM