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Instructor's Guide
Coastal Navigation & Piloting
by Tom Tursi

The ASA coastal navigation course package includes the textbook *Coastal Navigation & Piloting*, the companion workbook *Solutions to Navigation Questions*, and a 1210Tr Training Chart.

To do all of the homework assignments in the book, students will need an additional 1210Tr Chart plus the book *Chart #1- Symbols and Abbreviations*, which I ask students to purchase separately before the class.

Homework and practice exercises in the textbook require the following in addition to plotting tools:

- Practice plotting sheet from *Appendix E* is needed for chapter 4, 5, 6 and 7 assignments. (A copy is also appended to this document.)
- 1210Tr Training Chart is needed for chapter 6, 10 and 13 assignments.
- Chart #1 is required for chapter 9 & 13 assignments.

The Table of Contents of the textbook serves as a course outline. Chapters 1 to 8 constitute the bulk of the instructional material arranged in the sequence normally presented in class. Chapters 9 & 10 are assigned as homework and then reviewed in class. Chapters 11 & 12 are reviewed briefly in class. Chapter 13, which somewhat parallels the actual ASA examination, is assigned as an optional exercise for students after the 3rd class day but is not reviewed in detail in class.

Appendix M includes answers to all homework questions of Chapters 1 to 13, and the companion workbook, *Solutions to Navigation Questions* gives step-by-step solutions to all of these questions.

For classroom instruction, it is suggested that projection images be prepared from the figures in the textbook. It's also helpful to hand draw some images on a flip chart during class to help students follow the more difficult procedures.

Also, show in class examples of actual items such as navigational charts, plotting tools and publications. If extra copies of charts and pubs are available, pass them around and make them available for student perusal during class breaks.

The blank plotting sheet in *Appendix E* is used for many of the homework exercises as noted above. It's recommended that instructors provide additional copies of these to

students as these will be easier to use than the sheets bound in the book. A copy is appended to this document for this purpose.

The ideal schedule in my mind is four Saturday classes with one week between Days 1 & 2, two weeks between Days 2 & 3, and one week between Days 3 & 4. However, practicalities do not always permit these ideal times, and I usually teach the class in two 2-day weekends separated by two weeks for the large assignment at the end of Day 2.

Following is the day-by-day sequence that I normally use to conduct this course over four days, 8 hours per day:

- Day 1-
 - Teach Chapters 1 to 5.
 - Review Chapter 1 to 4 homework
 - Assign Chapter 5 homework for completion at home.

- Day 2-
 - Review Chapter 5 homework.
 - Teach Chapter 6
 - Assign Chapter 6 Practice Exercise questions 1 to 14 for in-class completion by students, and conduct review of these in class.
 - Assign Chapter 6 Homework questions 15 to 28 as homework using the 1210Tr Chart.
 - Teach Chapter 7
 - Review Chapter 7 Homework questions 1 to 5 in class and assign questions 6 to 8 as homework and questions 9 & 10 as optional homework.
 - Review Chapter 8 and show actual publications.
 - Assign Chapter 9 & 10 homework for completion at home.

- Day 3-
 - Review Chapter 6, 7, 9 & 10 homework.
 - Brief review of Chapters 11 & 12.
 - Answer any questions that students may have on Chapter 13.

- Day 4-
 - Review key plotting techniques including TVMDC, Running Fix, Danger Bearing and Current Vectors.
 - Answer student questions on any topic of the course.
 - Begin exam by end of 1st hour of class.
 - Allow up to five hours for completion of exam.
 - Students hand in ASA exam booklet, 1210Tr plotting sheet and their calculation notes for review and grading by instructor.

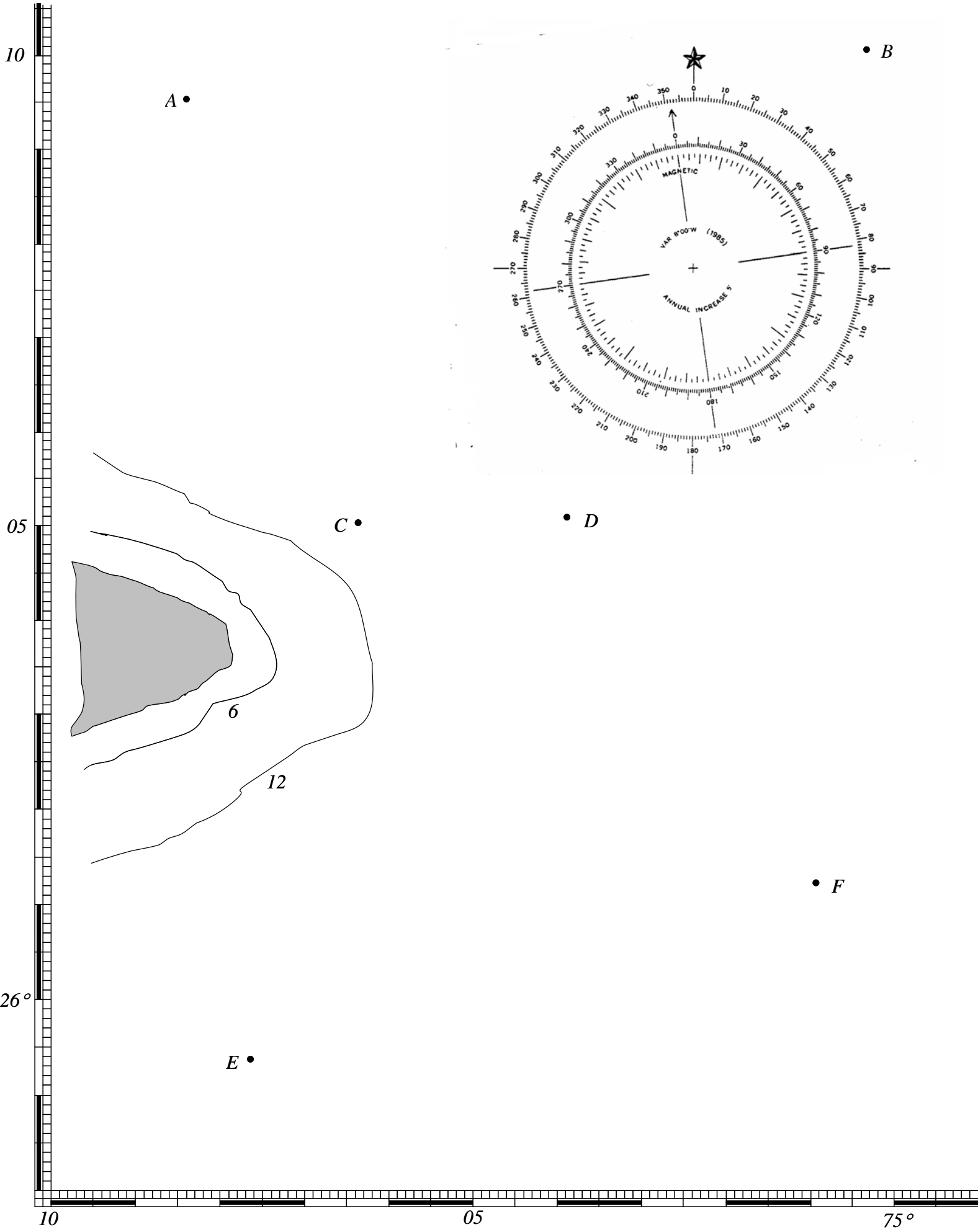
Instructor preparation is important before giving this course since there are several items that may be unfamiliar to some; for example: the many directional terms of Chapter 4, the light range discussion of Chapter 6, and the current vector discussions of Chapter 7.

I've tried to include in the text chapters only those items that are directly part of the navigation process using paper and pencil techniques. There are some advanced concepts presented in Chapters 11 & 12 and also in Appendices B, J, K & L, and the instructor should feel at liberty to skip these entirely during classroom instruction and suggest that interested students examine these on their own.

I also suggest that the course books be provided to students in advance of class to permit study prior to coming to class. Ask students to read at least Chapters 1 to 5 prior to class and to attempt to complete the homework in these chapters at that time. And remind students to purchase separately Chart #1 and an additional copy of the 1210Tr training chart.

I welcome and encourage instructor feedback, comments and suggestions on any aspect of these books in the interest of improving them and making them more useful to both students and instructors.

Good Sailing!
Tom Tursi



A •

• B

C •

• D

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E •

