

1 **TEACHING NOTES**

2 Article title: Stakeholders Emerge Successful from Troubled Waters of the
3 ACF: Southeastern USA

4 Questions about the Teaching Notes

5 Contact the authors for enquiries about teaching this case, including answers to any questions
6 posed by the case, the Teaching Notes, or Case Study Questions

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11 Target Group

12 Undergraduate or graduate students from across disciplines including, but not limited to, any
13 class on water management, ecology, political science, hydrology, law, architecture,
14 development, policy, business, engineering, conflict resolution, or ethics

15 Learning Objectives and Key Issues

16 Learning Objectives

17 To understand the context of competing water usage, livelihoods, economies and the environment
18 of the Apalachicola-Chattahoochee-Flint Basin

19 To determine why consensus building by the ACF Stakeholders succeeded when prior attempts at
20 resolving water allocation in the ACF Basin had failed

21 To grasp the complexities inherent in transboundary water management and dispute resolution

22 Key Issues

23 Water for the environment, the social science of water sharing, transboundary water agreements,
24 water use, complex decision making

25 Teaching Strategy

26 The case (paper) could be recommended for individual ancillary reading or to enlighten and
27 enliven a class discussion dedicated to the challenges of how shared waters can be managed while
28 protecting fragile ecosystem habitats. The information could also be assigned as a presentation or
29 adapted to panel, roundtable or debate formats. It may even be appropriate for an entire college
30 course. Example: Tim Grundl, Assistant Dean of Freshwater Sciences and Professor at University
31 of Wisconsin Milwaukee, based an entire course on the ACF Basin which included a field trip
32 down to the ACF Basin at the end of the semester where students were able to see the basin and
33 its ecosystems and issues and meet with some of the people working to manage its waters . For
34 more information contact Tim Grundl. grundl@uwm.edu

35 *“Changing Opinions,” Potential lesson plan/time frame: one week*

36 Since students come to class with their own set of assumptions and perspectives it would be a
37 valuable exercise to do a pre-assessment (anonymous) after learning only a cursory amount about
38 the ACF issues. Questions might include how these students would divide up the water between
39 the general sections of the basin. Equally? By acreage? Population? Economic productivity?

40 Next divide the class into two groups and let half the class read the Brief presented by Georgia to
41 the Special Master in the SCOTUS case. The other half would read the Brief presented by
42 Florida. Have them vote or write about how this information changed their opinions.

43 Next, have students read the brief of the opposite state. Take revote, or students write briefly
44 about how or if it changed their perspective.

45 Finally, have a class discussion or debate on how the water should be managed. Students can take
46 the point of view of a state, a stakeholder or even an endangered organism from the basin.

47 Have students discuss how their opinions changed over time.

48 Watch *Who Owns Water* - an award-winning documentary by Michael and David Hanson,
49 brothers who paddled the entire ACF waters from springs in Helen, GA to Apalachicola Bay,
50 Florida, interviewing people along the entire waterway.

51 <https://vimeo.com/ondemand/whoownswater>

52 What courses may this be appropriate for?

53 The manuscript was intentionally written to be free of jargon or terminology of any discipline or
54 sector making it useful and adaptable across a wide range of disciplines and stakeholders. It
55 would broaden knowledge and deepen discussion in any class on water management, ecology,
56 political science, hydrology, law, architecture, development, policy, business, engineering,
57 conflict resolution, or ethics.

58 What is an approximate timeframe for suggested teaching activities?

59 The timeframe for activities depends on how it is utilized. See above suggestions for various
60 applications.

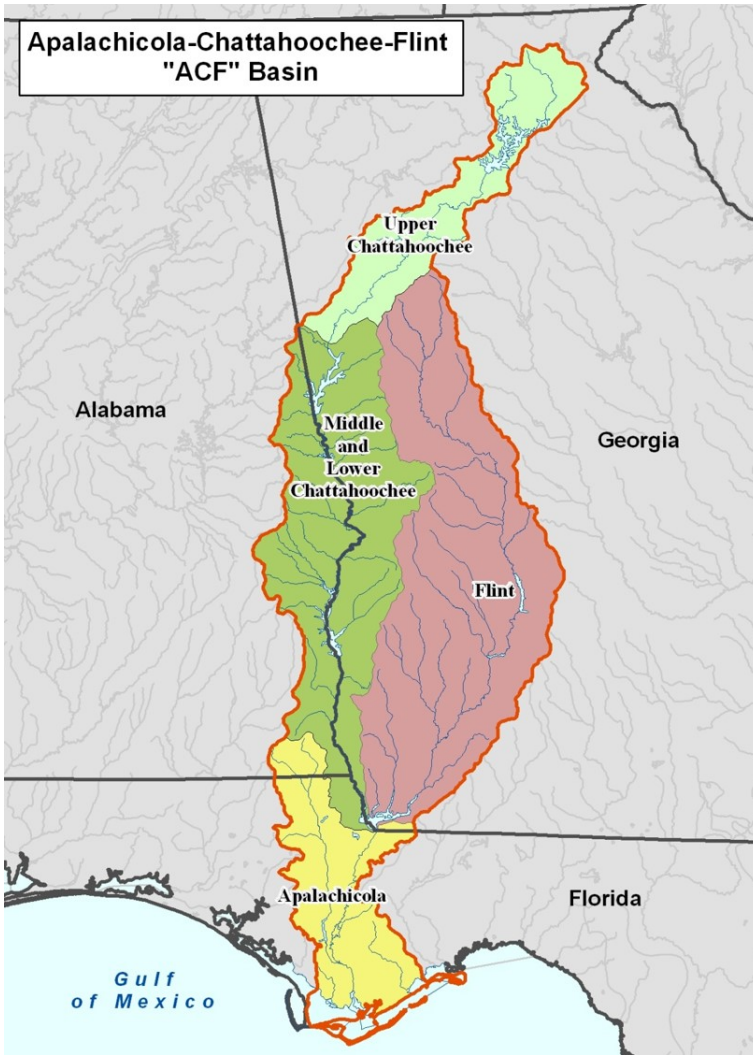
61 Anticipated Results

62 Students should grasp the complexity and challenges inherent in managing and sharing
63 transboundary waters. They may find they do not agree with one another, the findings of the
64 courts or the management set forth in the ACF Stakeholders' Plan for the ACF Basin.

65 Photos

66 These photos may be used in classroom setting only and are not be used for publication.

67 Photo Credits: Wilton Rooks, Mark Masters and Kathleen Rugel



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69 Map of the Apalachicola-Chattahoochee-Flint River Basin



70

71 City of Atlanta, Georgia



72

73 Center Pivot Irrigation System



74

75 Water for drinking



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77 Oyster harvesting in the Apalachicola Bay



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79 Apalachicola Oysterman Portrait



80

81 Gulf Sturgeon



82

83 Ichawaynochaway Creek, tributary of the Flint River



84

85 Freshwater mussels

86

87 Background Reading

88 Below are links to publications, videos, briefs, files and websites which should enhance student
89 understanding of the ACF Basin and ACF Stakeholder activities.

90

91 John Fleck's book about cooperation over water in the Lower Colorado River Basin

92 **Fleck J. Water is for fighting over: And other myths about water in the west. Island Press;**

93 **2016.**

94 Aaron Wolf's book about using the precepts of religious traditions to support decision making
95 over transboundary waters
96 **Wolf AT. The spirit of dialogue: Lessons from faith traditions in transforming conflict.**
97 **Island Press; 2017 Sep 14.**
98
99 Tri-State Water Wars - Background and History
100 <https://atlantaregional.org/natural-resources/water-wars/tri-state-water-wars-background-and->
101 [history/](https://atlantaregional.org/natural-resources/water-wars/tri-state-water-wars-background-and-history/)

102 ACF Stakeholders website
103 <http://acfstakeholders.org/>

104 US Fish and Wildlife information and biological opinion on how the US Army Corps of
105 Engineers should update reservoir management along the Chattahoochee River to protect multiple
106 endangered species in the ACF
107 <https://www.fws.gov/panamacity/acf.html>

108 *Who Owns Water*- award winning documentary by Michael and David Hanson, brothers who
109 paddled the entire ACF waters from springs in Helen, GA to Apalachicola Bay, Florida,
110 interviewing people along the entire waterway.
111 <https://vimeo.com/ondemand/whoownswater>

112 Paddling the Apalachicola on RiverTrek 2012, Part 2: EcoAdventures North Florida
113 YouTube video
114 https://www.youtube.com/watch?v=SNm_uZs8bcI

115 Apalachicola River Walk: EcoAdventures North Florida
116 YouTube video
117 <https://www.youtube.com/watch?v=KqMdtDpCjP0>

118 **Litigation background**
119 Website for ongoing litigation decisions and timeline in FL v GA
120 <https://www.scotusblog.com/case-files/cases/florida-v-georgia-2/>

121 Florida's (pretrial) Brief FL v GA (original)
122 https://www.ca10.uscourts.gov/sites/default/files/SM142/501_1.pdf

123 Georgia's (pretrial) Brief FL v GA (original)
124 https://www.ca10.uscourts.gov/sites/default/files/SM142/502_1.pdf

125 SCOTUS decision to remand Special Master in FL v GA
126 https://www.supremecourt.gov/opinions/17pdf/142%20orig_h3ci.pdf

127 Florida's Brief in ongoing FL v GA case (remanded)

128 [https://www.ca10.uscourts.gov/sites/default/files/SM142/2019.01.31%20-](https://www.ca10.uscourts.gov/sites/default/files/SM142/2019.01.31%20-%20State%20of%20Florida%27s%20Opening%20Post-Remand%20Suppl.%20Brief.pdf)
129 [%20State%20of%20Florida%27s%20Opening%20Post-Remand%20Suppl.%20Brief.pdf](https://www.ca10.uscourts.gov/sites/default/files/SM142/2019.01.31%20-%20State%20of%20Florida%27s%20Opening%20Post-Remand%20Suppl.%20Brief.pdf)

130 Georgia's Brief in ongoing FL vs GA case
131 [https://www.ca10.uscourts.gov/sites/default/files/SM142/2019.01.31%20Georgia%20Supplement](https://www.ca10.uscourts.gov/sites/default/files/SM142/2019.01.31%20Georgia%20Supplemental%20Brief.pdf)
132 [al%20Brief.pdf](https://www.ca10.uscourts.gov/sites/default/files/SM142/2019.01.31%20Georgia%20Supplemental%20Brief.pdf)

133 Georgia Statewide Water Plan
134 [https://waterplanning.georgia.gov/sites/waterplanning.georgia.gov/files/related_files/water_plan_](https://waterplanning.georgia.gov/sites/waterplanning.georgia.gov/files/related_files/water_plan_20080109.pdf)
135 [20080109.pdf](https://waterplanning.georgia.gov/sites/waterplanning.georgia.gov/files/related_files/water_plan_20080109.pdf)

136 Georgia Regional Water Planning
137 <https://waterplanning.georgia.gov/regional-water-planning>

138 Analysis of Florida's Water Resources Act of 1972
139 <https://ufdc.ufl.edu/WL00004219/00001>

140 Florida Water Management Districts
141 <https://floridadep.gov/water-policy/water-policy/content/water-management-districts>