

Amendment No.

CHAMBER ACTION

Senate

House

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Representative Busatta Cabrera offered the following:

**Amendment (with title amendment)**

Remove lines 115-324 and insert:

(c) A vulnerability assessment conducted pursuant to paragraph (b) must encompass the entire county or municipality; include all critical assets owned or maintained by the grant applicant; and use the most recent publicly available Digital Elevation Model and generally accepted analysis and modeling techniques. An assessment may encompass a smaller geographic area or include only a portion of the critical assets owned or maintained by the grant applicant with appropriate rationale and upon approval by the department. Locally collected elevation

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14 data may also be included as part of the assessment as long as  
15 it is submitted to the department pursuant to this paragraph.

16 1. The assessment must include an analysis of the  
17 vulnerability of and risks to critical assets, including  
18 regionally significant assets, owned or managed by the county or  
19 municipality.

20 2. Upon completion of a vulnerability assessment, the  
21 county or municipality shall submit to the department the  
22 following:

23 a. A report detailing the findings of the assessment.

24 b. All electronic mapping data used to illustrate flooding  
25 and sea level rise impacts identified in the assessment. When  
26 submitting such data, the county or municipality shall include:

27 (I) Geospatial data in an electronic file format suitable  
28 for input to the department's mapping tool.

29 (II) Geographic Information System data that has been  
30 projected into the appropriate Florida State Plane Coordinate  
31 System and that is suitable for the department's mapping tool.

32 The county or municipality must also submit metadata using  
33 standards prescribed by the department.

34 c. A list of critical assets, including regionally  
35 significant assets, that are impacted by flooding and sea level  
36 rise.

37 (d) A vulnerability assessment conducted pursuant to  
38 paragraph (b) must include all of the following, if applicable:

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39 1. Peril of flood comprehensive plan amendments that  
40 address the requirements of s. 163.3178(2)(f), if the county or  
41 municipality is subject to such requirements and has not  
42 complied with such requirements as determined by the Department  
43 of Economic Opportunity.

44 2. The depth of:

45 a. Tidal flooding, including future high tide flooding,  
46 which must use thresholds published and provided by the  
47 department. To the extent practicable, the analysis should also  
48 geographically display the number of tidal flood days expected  
49 for each scenario and planning horizon.

50 b. Current and future storm surge flooding using publicly  
51 available National Oceanic and Atmospheric Administration or  
52 Federal Emergency Management Agency storm surge data. The  
53 initial storm surge event used must equal or exceed the current  
54 100-year flood event. Higher frequency storm events may be  
55 analyzed to understand the exposure of a critical asset.

56 c. To the extent practicable, rainfall-induced flooding  
57 using spatiotemporal analysis or existing hydrologic and  
58 hydraulic modeling results. Future boundary conditions should be  
59 modified to consider sea level rise and high tide conditions.

60 d. To the extent practicable, compound flooding or the  
61 combination of tidal, storm surge, and rainfall-induced  
62 flooding.

63 3. The following scenarios and standards:

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64 a. All analyses in the North American Vertical Datum of  
65 1988.

66 b. At least two local sea level rise scenarios, which must  
67 include the 2017 National Oceanic and Atmospheric Administration  
68 intermediate-low and intermediate-high sea level rise  
69 projections.

70 c. At least two planning horizons that include planning  
71 horizons for the years 2040 and 2070.

72 d. Local sea level data that has been interpolated between  
73 the two closest National Oceanic and Atmospheric Administration  
74 tide gauges. Local sea level data may be taken from one such  
75 gauge if the gauge has a higher mean sea level. Data taken from  
76 an alternate tide gauge may be used with appropriate rationale  
77 and department approval, as long as it is publicly available or  
78 submitted to the department pursuant to paragraph (b).

79 (4) COMPREHENSIVE STATEWIDE FLOOD VULNERABILITY AND SEA  
80 LEVEL RISE DATA SET AND ASSESSMENT.—

81 (a) By July 1, 2022, the department shall complete the  
82 development of a comprehensive statewide flood vulnerability and  
83 sea level rise data set sufficient to conduct a comprehensive  
84 statewide flood vulnerability and sea level rise assessment. In  
85 developing the data set, the department shall compile, analyze,  
86 and incorporate, as appropriate, information related to  
87 vulnerability assessments submitted to the department pursuant  
88 to subsection (3) or any previously completed assessments that

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89 meet the requirements of subsection (3).

90 1. The Chief Science Officer shall, in coordination with  
91 necessary experts and resources, develop statewide sea level  
92 rise projections that incorporate temporal and spatial  
93 variability, to the extent practicable, for inclusion in the  
94 data set. This subparagraph does not supersede regionally  
95 adopted projections.

96 2. The data set must include information necessary to  
97 determine the risks to inland and coastal communities,  
98 including, but not limited to, elevation, tidal levels, and  
99 precipitation.

100 (b) By July 1, 2023, the department shall complete a  
101 comprehensive statewide flood vulnerability and sea level rise  
102 assessment that identifies inland and coastal infrastructure,  
103 geographic areas, and communities in the state that are  
104 vulnerable to flooding and sea level rise and the associated  
105 risks.

106 1. The department shall use the comprehensive statewide  
107 flood vulnerability and sea level rise data set to conduct the  
108 assessment.

109 2. The assessment must incorporate local and regional  
110 analyses of vulnerabilities and risks, including, as  
111 appropriate, local mitigation strategies and postdisaster  
112 redevelopment plans.

113 3. The assessment must include an inventory of critical

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114 assets, including regionally significant assets, that are  
115 essential for critical government and business functions,  
116 national security, public health and safety, the economy, flood  
117 and storm protection, water quality management, and wildlife  
118 habitat management, and must identify and analyze the  
119 vulnerability of and risks to such critical assets. When  
120 identifying critical assets for inclusion in the assessment, the  
121 department shall also take into consideration the critical  
122 assets identified by local governments and submitted to the  
123 department pursuant to subsection (3).

124 (c) The department shall update the comprehensive  
125 statewide flood vulnerability and sea level rise data set and  
126 assessment every 5 years. The department may update the data set  
127 and assessment more frequently if it determines that updates are  
128 necessary to maintain the validity of the data set and  
129 assessment.

130 (5) STATEWIDE FLOODING AND SEA LEVEL RISE RESILIENCE  
131 PLAN.—

132 (a) By December 1, 2021, and each December 1 thereafter,  
133 the department shall develop a Statewide Flooding and Sea Level  
134 Rise Resilience Plan on a 3-year planning horizon and submit it  
135 to the Governor, the President of the Senate, and the Speaker of  
136 the House of Representatives. The plan must consist of ranked  
137 projects that address risks of flooding and sea level rise to  
138 coastal and inland communities in the state.

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139        (b) The plan submitted by December 1, 2021, before the  
140 comprehensive statewide flood vulnerability and sea level rise  
141 assessment is completed, will be a preliminary plan that  
142 addresses risks of flooding and sea level rise identified in  
143 available local government vulnerability assessments. The plan  
144 submitted by December 1, 2022, will be an update to the  
145 preliminary plan. The plan submitted by December 1, 2023, and  
146 each plan submitted by December 1 thereafter, shall address  
147 risks of flooding and sea level rise identified in the  
148 comprehensive statewide flood vulnerability and sea level rise  
149 assessment.

150        (c) Each plan submitted by the department pursuant to this  
151 subsection must include the following information for each  
152 recommended project:

- 153            1. A description of the project.
- 154            2. The location of the project.
- 155            3. An estimate of how long the project will take to  
156 complete.
- 157            4. An estimate of the cost of the project.
- 158            5. The cost-share percentage available for the project.
- 159            6. A summary of the priority score assigned to the  
160 project.
- 161            7. The project sponsor.

162        (d)1. By September 1, 2021, and each September 1  
163 thereafter, counties and municipalities may submit to the

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164 department a list of proposed projects that address risks of  
165 flooding or sea level rise identified in vulnerability  
166 assessments that meet the requirements of subsection (3). A  
167 regional resilience entity may also submit such proposed  
168 projects to the department on behalf of one or more member  
169 counties or municipalities.

170 2. By September 1, 2021, and each September 1 thereafter,  
171 each water management district and flood control district may  
172 submit to the department a list of any proposed projects that  
173 mitigate the risks of flooding or sea level rise on water  
174 supplies or water resources of the state and a corresponding  
175 evaluation of each project.

176 3. Each project submitted to the department by a county,  
177 municipality, regional resilience entity, water management  
178 district, or flood control district for consideration by the  
179 department for inclusion in the plan must include:

180 a. A description of the project.

181 b. The location of the project.

182 c. An estimate of how long the project will take to  
183 complete.

184 d. An estimate of the cost of the project.

185 e. The cost-share percentage available for the project.

186 f. The project sponsor.

187 (e) Each project included in the plan must have a minimum  
188 50 percent cost-share unless the project assists or is within a

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189 financially disadvantaged small community. For purposes of this  
190 section, the term "financially disadvantaged small community"  
191 means:

192 1. A municipality that has a population of 10,000 or  
193 fewer, according to the most recent April 1 population estimates  
194 posted on the Office of Economic and Demographic Research's  
195 website and a per capita annual income that is less than the  
196 state's per capita annual income as shown in the most recent  
197 release from the Bureau of the Census of the United States  
198 Department of Commerce that includes both measurements; or

199 2. A county that has a population of 50,000 or fewer,  
200 according to the most recent April 1 population estimates posted  
201 on the Office of Economic and Demographic Research's website and  
202 a per capita annual income that is less than the state's per  
203 capita annual income as shown in the most recent release from  
204 the Bureau of the Census of the United States Department of  
205 Commerce that includes both measurements.

206 (f) To be eligible for inclusion in the plan, a project  
207 must have been submitted by a county, municipality, regional  
208 resilience entity, water management district, or flood control  
209 district pursuant to paragraph (d) or must have been identified  
210 in the comprehensive statewide flood vulnerability and sea level  
211 rise assessment, as applicable.

212 (g) Expenses ineligible for inclusion in the plan include,  
213 but are not limited to, expenses associated with:

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