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To: Rep. James Albis

I would like to thank you for the opportunity to address your Committee last evening at the Blackstone Library.

I would like to propose for your consideration a field exercise that your Committee members may find useful in better visualizing the impacts of sea level rise. It has been useful to me over the past eight years.

Below is a table of dates and times specific to Guilford of seasonal high tides during this autumn that will be 1 foot or more over the annual average high tide of Guilford. Times and heights of high tide will of course vary along the Sound, but most areas should experience approximately the same variance.

Date	Day	Time	Time	Zone	High Tide
09/18/12	Tue	13:13:00	1:13 PM	EDT	6.42 feet
10/15/12	Mon	11:14:00	11:14 AM	EDT	6.48 feet
10/16/12	Tue	12:01:00	12:01 PM	EDT	6.60 feet
10/17/12	Wed	12:50:00	12:50 PM	EDT	6.59 feet
10/18/12	Thu	13:42:00	1:42 PM	EDT	6.46 feet
11/13/12	Tue	9:49:00	9:49 AM	EST	6.54 feet
11/14/12	Wed	10:39:00	10:39 AM	EST	6.63 feet
11/15/12	Thu	11:31:00	11:31 AM	EST	6.58 feet
11/16/12	Fri	12:25:00	12:25 PM	EST	6.40 feet
12/13/12	Thu	10:23:00	10:23 AM	EST	6.47 feet
12/14/12	Fri	11:16:00	11:16 AM	EST	6.42 feet

I would suggest the following procedure to maximize benefit of members' time:

1. Determine from your town's emergency services managers where the locations of most frequent coastal flooding occur, concentrating on residential and commercial properties, and critical infrastructure.
2. For the dates above, determine from tidal tables the time of high tide for your community.
3. Prior to those dates, visit those areas on a day of typical high tide to gain a sense of normal, a visual baseline for comparison. Note and take photos of the shoreline in those specific locations.
4. Visit those same areas on one or more of the dates above at the time of high tide for your specific community. Take photos if possible, and note whether conditions are calm, or subject to storm influences or strong winds which can have an impact on what you are observing. If possible, engage neighbors familiar with the area to get a sense of how typical the specific day is for seasonal high tides.

5. If your schedules do not allow this, engage local town managers to do this for you. But photos are often a distant second-best to being there.

6. With the visual of a one foot sea level rise implanted in your memory, let your imagination run wild. Add another foot, or two, or three. Remember that these increments MAY be a progression over time. We will not get there with the 'flip of a switch', but gradually. And each one foot of increment will pose different challenges to the viability of a given location over the course of the century.

I hope this exercise will prove informative to your committee as it has for me. I welcome any questions.

Regards,

Sid Gale