

# Local Mitigation Strategy

**LMS**  
**Miami-Dade**



## Whole Community Hazard Mitigation Part 5: Meeting Minutes



July 2020

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## Part 5 – Meeting Minutes

### Introduction to the Minutes of the Working Group Meetings

The initial meeting between Miami-Dade County and the first group of interested municipalities and other parties was held May 5, 1998 at the Miami-Dade County Emergency Operations Center (EOC) at 5600 S.W 87<sup>th</sup> Avenue, Miami, Florida 33173. These representatives formed the nucleus of the Working Group and were established to fulfill the obligations of a grant from the State of Florida. On June 15, 2000, the EOC moved to its present location at 9300 N.W 41<sup>st</sup> Street, Miami, FL 33178.

The Local Mitigation Strategy (LMS) – Part 5 is a compilation of the meeting minutes from the LMS Working Group (LMSWG) which provides the reader with an overview of the beginning, the development, and continuing activities of the LMSWG. Originally, it was required by the State that a meeting schedule was to be maintained; however, a year later the meeting schedule was no longer published. The meeting held on August 12, 1999 was the last meeting under the original State contract.

In September 1999 the meeting frequency was changed from monthly to quarterly. Meetings dates have now been stabilized and are generally held on the central Wednesday of March, June, September and December. In recent times, members of the LMS Working Group have volunteered to host the LMS Working Group meetings, which seems to enhance interest and attendance. The meeting minutes will be continuously published as they clearly demonstrate the growth and development of the Local Mitigation Strategy in Miami-Dade County.

The five-year planning cycle dating back to 2015 is included in the LMS - Part 5. A complete archive of meeting minutes from 1998 through the 2014 calendar year is available upon request from the LMS Chair at [mdlms@miamidade.gov](mailto:mdlms@miamidade.gov).

## 2015 Meeting Minutes

### March 18, 2015 Meeting

The meeting was held at the Miami-Dade Fire Rescue (MDFR) Training Center Auditorium in Doral. There were a total of 68 attendees representing 50 agencies. Curt Sommerhoff, Director of Emergency Management, welcomed everyone to the LMS Meeting and thanked them for their continued support.

LMS Coordinator/Chair, Cathie Perkins, welcomed everyone and asked new attendees to identify themselves and welcomed them to our meeting. Group announcements including an afternoon session for the Community Rating System (CRS) Subcommittee with a webinar on Program for Public Information, the CRS Subcommittee meeting on March 24<sup>th</sup> (see LMS Calendar for more info) and the annual Feel the Force Event which will take place on May 30<sup>th</sup> at the Museum of Science. Ms. Perkins encouraged the CRS communities to support the event on the 30<sup>th</sup> for public outreach credit.

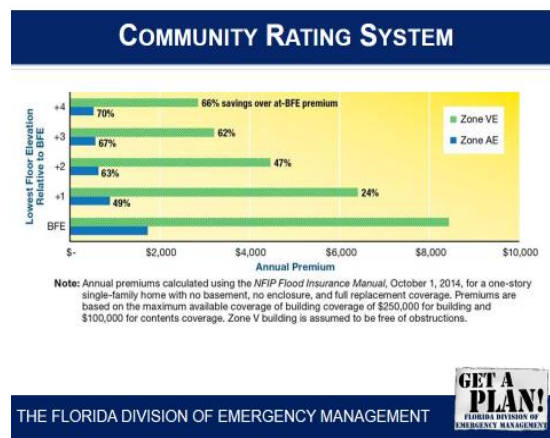
Ms. Perkins, introduced Josh Overmyer from the Florida CRS Initiative. Mr. Overmyer spoke to the group about the four (4) Planners from the State who are available to assist with CRS participation, are available for workshops for community staff, are working to help get additional credit points, liaison with FEMA, assist with planning and also help publicize the flood insurance discount. Mr. Overmyer spoke of how in Florida 45% of communities participate and this nets an annual savings of over \$180 Million. Nationally, there are only 6% of community participation for an annual savings of over \$360 Million. Mr. Overmyer spoke about the CRS activities and the numerous agencies that communities work with to help get credits including: various State agencies, Water Management Districts, State Dam Safety Office, Emergency Management, NFIP and FEMA. Mr. Overmyer showed how much money on an average annual premium could be saved if additional freeboard is used in construction. For a house built at Base Flood Elevation in an AE zone the premium is just under \$2,000, but a house with one foot of freeboard saves 49% on their flood insurance and two feet of freeboard saves 63%.

Mr. Overmyer also recommended the following resources for more information on CRS:

- <http://www.floridadisaster.org/mitigation/CRS>
- <http://www.crsresources.org>

For more information you can reach Josh Overmyer at 850-519-7955 or [josh.overmyer@em.myflorida.com](mailto:josh.overmyer@em.myflorida.com).

The next speaker, was Earl King who founded CRS Max Consultants, Inc. Mr. King is one of numerous contractors who can provide assistance to communities that are interested in joining the CRS or who may need assistance with maintaining their CRS. Mr. King spoke



of the three “WOWs of CRS”. The first “Wow” is that this is a program where you can get money back in savings from the government. The second “Wow” is how complex it can be with 19 activities, numerous Departments to coordinate with, and a new User Manual that is 614 pages, the CRS can be a daunting task. The third “Wow” is the reaction of the person tasked with getting the work done to get into or stay in the program. Mr. King mentioned that help is available to communities through the ISO/CRS Specialists, of which there are four in the State, the Florida CRS Initiative, CRS User Groups, and Consultants. CRS Max can help communities and is dedicated exclusively working only on NFIP /CRS program. For more information you can reach CRS Max at 954-421-7794 or [crsmaxinc@bell-south.net](mailto:crsmaxinc@bell-south.net).

Next Ms. Perkins provided an overview of the status of the LMS five-year update. On March 17<sup>th</sup> the LMS Plan was resubmitted to the State for review. The expiration on the current plan is May 10<sup>th</sup>. Once The State approves the plan, Miami-Dade County will let all of the stakeholders know and make it available so the relevant partners can do a local adoption while it is sent it to the Board of County Commissioners for their adoption.

The next segment of the meeting was entitled “Moving Forward” to discuss challenges and opportunities as the program continues:

1. **Mandatory Project Fields** – all new projects must have all of the mandatory fields completed in order to be saved. Existing projects should all be up to date and partners were advised to verify their projects.
2. **New Potential Fields within WebEOC** – it was noted that the ability to add multiple basins, allow partners to download more fields, also add an identifier partners can use to indicate additional departments/divisions or tracking numbers that may be unique to their programs to help with making updates. It was also noted that the grants selection should be updated to better reflect the different grant programs. It was also posed if WebEOC could allow the system to upload shapefiles, this will be researched.
3. **Mandatory Project Updates** – currently OEM requires partners to update their projects twice a year. This is a carryover from when they were Word documents and OEM did not have real time tracking like WebEOC currently allows. Failure to update projects on an annual basis will mean they will be moved to the Inactive List. Ms. Perkins proposed that projects should be updated once a year and opened it up for discussion. It was also suggested that OEM allow more time for the points of contact to ensure updates were done before they were moved to Inactive. It was proposed that OEM use the fiscal year cycle as a determination. Ms. Perkins proposed that October 31<sup>st</sup> would be the deadline for annual updates. A grace period of two (2) months will be allowed during which time the points of contacts for the projects will be notified and have until December 31<sup>st</sup> to make the updates. By January 1<sup>st</sup> those projects not updated will be moved to Inactive Status. A vote was taken and was unanimously supported. This will be updated in the LMS Plan.

The screenshot displays the 'Mandatory Fields' section of the LMS Project List. On the left, a bulleted list of fields is shown: Agency, Project Title, Entry Type, Hazard, Project Type, Address, Completion Timeframe, Mitigation Goals, Funding Source, Project Description, and Point of Contact – Name, phone and email. On the right, a form titled 'LMS Project List' is visible, with a red error message box stating 'The Project Title field is required'. Below the error message, there are buttons for 'OK' and 'Cancel'.



4. Inactive Projects and permanent deletion. The next item of discussion revolved around what happens once a project becomes inactive. Once a project has been deemed Inactive due to failure to update, the point of contact will be notified that they have until the first Quarterly meeting (the third Wednesday of March) to make the requisite updates. Failure to do so during that time will mean the Inactive Projects will be put up for a vote to the Working Group for permanent deletion at the first quarterly meeting. It was opened up for discussion. The motion was put to the group for a vote and it was unanimously approved.
5. Points of Contact – all attendees were asked to provide three (3) layers of contacts at their agency to ensure that the LMS Coordinator can send project notices to the right people and also reduce the chances of turnover of staff and loss of contact. For those that were not at the meeting, they were asked via email to provide their (3) layers of contact information if they had projects.
6. The next item on the Agenda was to discuss additional opportunities or ways for us to get back to more strategic planning. It was opened for discussion as to other groups we might want to focus on to include as subcommittees or meetings. The example of perhaps working with partners in areas that experience repetitive flooding or areas where planned construction/development will be occurring so we can have the various stakeholders present and discuss concerns and potential solutions was brought up. Meeting with the professional groups such as American Public Works Association, building officials, realtors, colleges and universities. Also exploring speakers that can talk to their successes in pursuing grants, resource sharing, best practices and the challenges of universal match/credits. Historically, there was more interaction with the State from the County level in order to leverage what is needed and get them to assist the LMS partners, perhaps more of a watchdog role in tracking funds. Private sector developers and what they are looking at, gas station and businesses with generators and seeing how this is tracked and how prepared they are. Marcia Steelman offered to follow up on the permit cycles for the gas station generators to assess if they include any site visitation notations on seeing the generator or hookups. Discussion about FPL as to the status of their infrastructure hardening. Additionally, it was suggested that we have further discussions about the re-entry process in order to be able to assess damages.
7. Next we looked at the current composition of the Steering Committee to review if we have the right balance of people on board. It was suggested that maybe we want to include someone from the utilities side and first responders. Some of the current Steering Committee members will be retiring and they need to look for replacements. More information will be sent out regarding the fact that we are seeking volunteers for the Steering Committee.
8. Lastly the LMS Working Group talked about what else they can do as a strategy and there was some additional discussion about FPL power lines. For the next meeting, they will try to bring in folks from the utilities/private sector side who can speak about

to what they have been doing and where the LMS members are in terms of hardening and resiliency.

The meeting was closed, reminding everyone to sign-in and announcing that the next meeting will be on June 17<sup>th</sup> and asked for anyone that was interested in hosting the meeting. As always, everyone was encouraged to send emails to the LMS Planner with any additional comments or follow up. The meeting was adjourned.

<b>Emergency Management</b>	<b>2</b>	<b>Chair Representing Recovery/ESF 18 Business and Industry</b>
Municipal	2	Includes Floodplain Manager Public Works/Facilities
Education	4	Social Science Public Outreach/Research Grants Facilities
Health Care	1	Hospital/Planning & Gov. Relations.
Private Sector	3	Mitigation projects/measures
National Weather Service	1	
SFWMD	1	
Private Citizen	1	Represents Ag interests
Planner	1	Climate Change/Sea Level Rise
Social Service Agency	0	Currently vacant

## June 17, 2015 Meeting

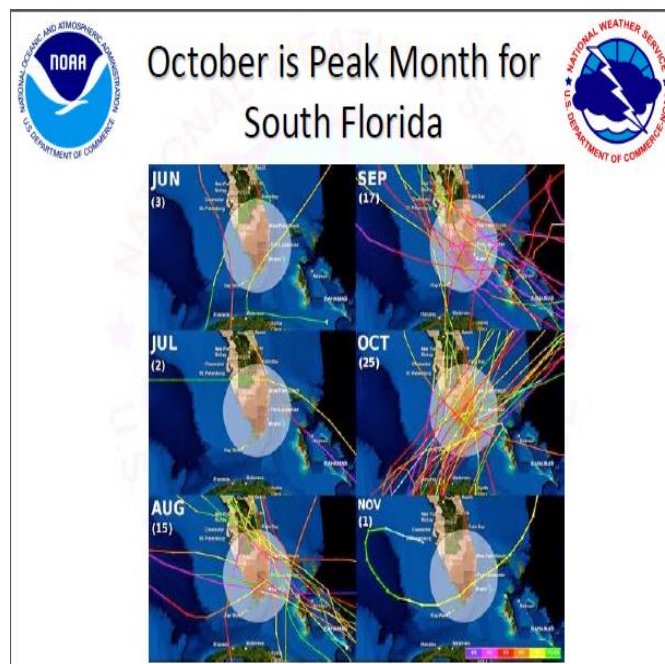
The meeting was held at the Miami-Dade Fire Rescue Training Center Auditorium in Doral, FL. We had 65 people in attendance, representing 45 agencies. We also had a number of new people attending and welcomed them to the LMS. Cathie Perkins, LMS Chair made a few group announcements:

- Emergency Management Institute is having a four day class in September called the E212 Unified Hazard Mitigation Assistance: Developing Quality Application Elements.
- One hour free [webinar](#) on Maintaining Buildings and Grounds will be held on Tuesday, July 14<sup>th</sup> at 2:00 pm.

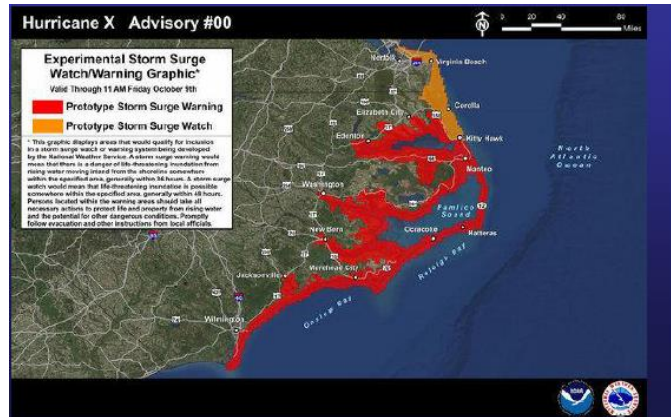
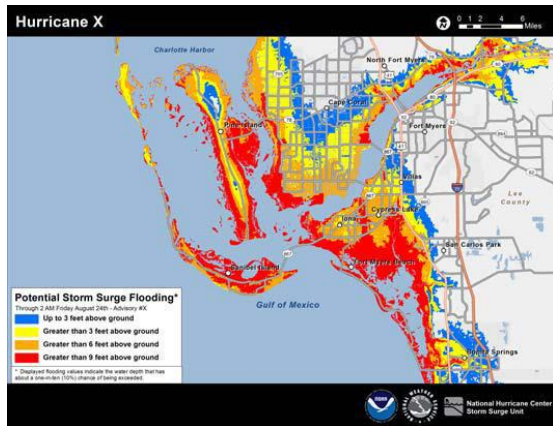
The first guest speaker was Erik Salna, Associate Director and Meteorologist with FIU Extreme Events Institute – International Hurricane Research Center. Mr. Salna was kind enough to help provide this years updated hurricane forecast and updates from the National Hurricane Center as Rob Molleda could not attend the meeting. Mr. Salna reminded the LMS members that it has been 10 years since we have been impacted locally by a hurricane and how in 2005 NOAA actually ran out of names because there were 28 named systems. Though this year is predicted to be less than average Mr. Salna reminded us that the LMS members must be prepared regardless and that it only takes one storm. An El Nino year may mean less chance of storms but 1992 was an El Nino year and Hurricane Andrew was an unforgettable event. Mr. Salna spoke about how as time goes on that communities tend to become complacent, apathetic, and amnesic and how Miami-Dade County now have more people here with no prior hurricane experience. Mr. Salna stressed that this has been the longest stretch on record dating back to 1851 that no hurricanes have made landfall in Florida. The longest prior to this was 5 years from 1980 – 1984.

Mr. Salna showed the graphic to the right that October historically has been the month with the most hurricane landfalls for the County, but that doesn't mean we have four more months before something could happen. The LMS members should also not be tricked by the "category of storm: Tropical Storms and Category 1's can do a lot of damage.

The National Hurricane Center will be providing the Potential Storm Surge Graphic to help convey the dangers of storm surge to the public. They are also looking to do an experimental product this year known as the Storm Surge Watch/Warning.



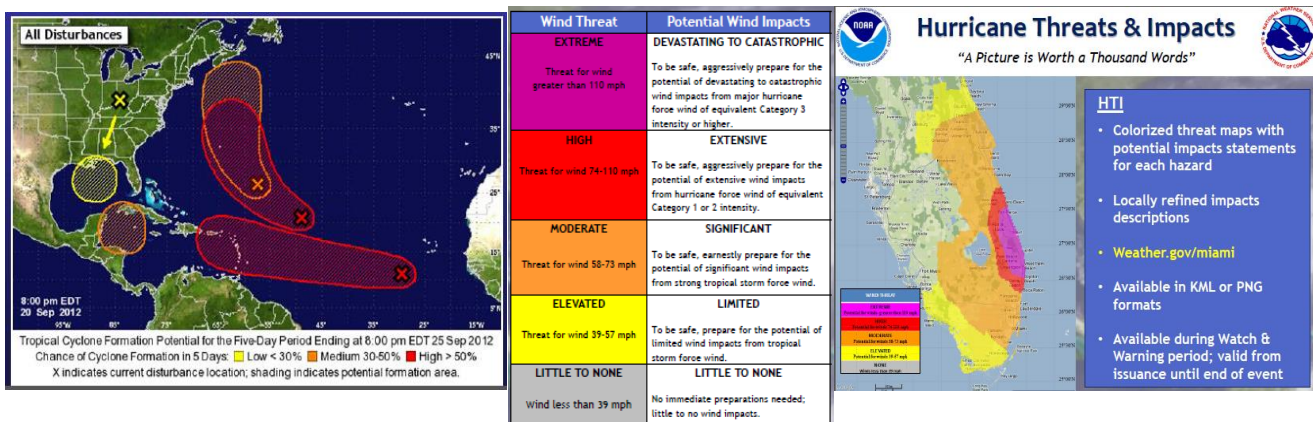




Mr. Salna stressed that everyone should know the storm surge planning zones and if their homes or facilities are located there. If any LMS members have any questions about this OEM can assist you with finding this information out. The NHC will also be issuing graphics to help display where systems are likely to develop. This tool may help LMS members with your preparedness and planning.

A new website will be available to provide information in Spanish and should be ready to launch June 29<sup>th</sup>. OEM will send out more information when it becomes available.

Mr. Salna stressed, what you have heard the National Weather Service and OEM has been saying for years that the cone is good for initial information about where the system is headed but when it comes to understanding the local impacts, the LMS members should turn to NWS – Miami. Mr. Salna talked about the new hurricane threat and impact graphics that have been developed utilizing social science to help ensure that the public at large understands the information being conveyed.



Mr. Salna opened the session with having people recall their hurricane experiences and stressed during the presentation that everyone should have a battery operated radio for weather advisories during a storm.

Mr. Salna closed with a slide on how mitigation really does work. Case in point this house to the right. It was built with mitigation in mind.

The second presenter was David Block who is a Mitigation Planner with the Florida Division of Emergency Management. Mr. Block spoke on how to keep the LMS programs going and on the FY2015 Hazard Mitigation Assistance Guidance. The funding that is available now is the Pre-Disaster Mitigation (PDM) grant and the Flood Mitigation Assistance (FMA) program. The PDM is limited to three projects for the entire State and \$250K for all three. The focus will be on planning projects. For FMA FEMA revised the priorities for selection of mitigation projects on a competitive basis:

- Projects with the highest percentage of severe repetitive loss properties with at least 2 claims exceeding market value
- Projects with the highest percentage of repetitive loss properties
- Projects with the highest percentage of severe repetitive loss properties with 4 or more claims exceeding \$5,000 each for a total exceeding \$20,000
- FEMA added mitigation of contiguous NFIP-insured properties as the last priority for funding

### Common Sources of Mitigation

#### Funding

##### Hazard Mitigation Assistance:

- 404 HMGP: Hazard Mitigation Grant Program (FEMA)
- PDM: Pre-Disaster Mitigation (FEMA)
- FMA: Flood Mitigation Assistance (FEMA)

##### Public Assistance:

- 406 HMP: Hazard Mitigation Program (FEMA)
- 428 PAAP: Public Assistance Alternative Procedures (FEMA)

##### Additional Programs:

- CDBG-DR Programs (HUD)



All grants must be submitted to the State via eGrants application system on or before July 17, 2015 5:00 pm.

Our final speaker was Jason McCright, from ARCADIS and formerly with the State Mitigation Bureau, who spoke to the group about funding opportunities as well.

Mr. McCright spoke of the importance of the 404 money after a disaster and how that is a portion, in FL 20%, of the total monies declared through Public Assistance, Individual Assistance and Small Business Administration loans. When you fill out a project worksheet for a public building that has been damaged you can also check off for the 406 mitigation monies that will allow you to not only repair the damages but build in mitigation as well. Mr. McCright spoke of the 428 pilot program that is available now whereby you can set a dollar amount for the reparation of a project and get a one-time lump sum amount instead of reimbursement based on expenditures.

- Funding is given in a “capped grant”
- FEMA will only provide the capped amount: if the project exceeds this amount, the applicant incurs those costs
- If project costs incurred are less than the capped amount, the applicant may apply the money to other community projects.

Mr. McCright also mentioned the Community Development Block Grant – Disaster Recovery program. HUD has provided monies to areas that have had presidentially declared disasters. More information about this funding source is available [here](#).

The meeting was closed by discussing the 2015 Wall of Wind Challenge held at FIU in May. This years' challenge was to create a barrier to reduce the wind impacts of beach front property.

WOW Challenge story by The Weather Channel:

<http://www.weather.com/tv/shows/amhq/video/students-vs-wall-of-wind>

Here is a link to the FIU News video story on the Challenge:

<http://news.fiu.edu/2015/05/high-school-students-test-engineering-skills-at-wall-of-wind-challenge/88448>

**September 16, 2015 Meeting**

The meeting was held at the Miami Beach and the Botanical Gardens Auditorium in Miami Beach. A total of 65 people attending which represented 39 agencies. With an all-time high of 33 municipal representatives.

The meeting opened by welcoming the newest members to LMS. General announcements included the following:

- New guidance has been released from FEMA for the Unified Federal Environmental and Historic Preservation Review – [Guide for Federal Disaster Recovery Assistance Applicants \(Applicant Guide\)](#).
- Florida C2C Developing Emergency Plans: Artifact Salvage and Recovery [Workshop](#). Deadline to apply is September 25<sup>th</sup> for a session at Frost Art Museum October 2<sup>nd</sup>.
- Training for Rapid Needs Assessment and Recovery from Disaster: Local Government Role will be held on October 5<sup>th</sup> and 6<sup>th</sup> here in Miami Dade. Individuals can register [here](#).
- Agricultural Declaration for the Oriental Fruit Fly was declared on September 15 for more information [visit here](#).
- The National Exercise Program's pilot Climate, Adaptation, Preparedness and Resilience Exercise Seminar will be held at FIU on September 21-22<sup>nd</sup>. *If anyone is interested please email ASAP as this is an invitation only event and OEM will try to get you an invite.* This two-day seminar will engage community leaders to learn, discuss, and practice use of exercise methodology to build community resiliency and adaptation capabilities in order to address long-term hazards related to a changing climate. The expectation is that participants will rely on knowledge and tools promoted during the seminar to empower action within their own community. Participants will learn to design and deliver discussion-based exercises that identify the most critical, climate-related challenges within their respective jurisdictions. Seminar participants will receive access to a climate-related resource center that includes climate science information, exercise templates, adaptation and planning strategies, climate networking directory, and other references and resources necessary to plan and execute climate-related exercises.

Next on the agenda was the best practices for the Community Rating System. Miami Gardens has contracted with Miami Lakes to assist them with portion of their CRS program. This may be a good model to partner with another municipality for those communities that have not been able to hire a full time person to help launch or maintain their own CRS program.

Next Alfredo Quintero and Yenier Vega of the Town of Cutler Bay provided a presentation on the outreach that they are doing in their community to promote NFIP and emergency preparedness measures.



- [Website](#) postings include project updates, stormwater information, flood awareness and upcoming Town events.
- Mailings to their entire community include informational brochures such as flood flyers, stormwater information, proper tree trimming and canopy uplifting and monthly project updates.
- Movie nights at the park, before the movies the Town shows public service announcements that they got from the internet including [Only Rain Down the Drain](#) clips.
- Open mic nights where the Town hosts question and answer sessions.
- Mailings to properties in and near Special Flood Hazard Area, flood awareness brochures, flood zone flyers and FEMA brochures.
- Copies of outreach materials in the kiosks of local retail stores. If the store has one they will as to utilize some of the space, if they do not have a kiosk they provide one with permission.
- Copies of outreach materials and a booth at annual emergency management events, Hurricane Fair and Repetitive Loss Workshop
- Copies provided via door hangers during various Town activities

The Town actively tracks all of their outreach activities and when able will count the number of people who attend.

Mr. Quintero and Mr. Vega also presented the Enviroscape project that they do on an annual basis in schools within their jurisdiction. They go to one school each year and spend an entire day working with grades 2-6 educating them on runoff. There is a power point, a movie and probably the most fun of all a hands on interactive model where they kids can simulate grass clippings, pesticides and even doggie doo, with candy sprinkles. Then with spray bottles they can see how when it rains these things can become contaminants to our water supply. At the end of the day the Town leaves an interactive butterfly garden for the school. Here is the link to the company that they purchased their kit from <http://www.envi-roscapes.com/>. Mr. Vega demonstrated the power point presentation and how kid friendly it is. Their presentation includes lot of local pictures to help the kids visualize the impacts in their community. Mr. Vega provided a very interesting statistic that one quart of oil is sufficient to contaminate one million gallons of water. They even discussed how household pet waste can pollute the water and how you should pick up the poop (or train your dog to do it).

It was a great presentation and they very generously offered to make the word version of documents they have created available to others to customize.





Next was announced the official FEMA approval of the LMS and that the LMS partners had received the letter on September 15<sup>th</sup>. OEM emailed that out to everyone at the beginning of the meeting so as not to ruin the surprise. OEM talked about the importance of participation and not just through attending meetings but by contributing to the LMS document, including municipal codes and local hazard impacts. Also discussed was how remaining an active member is important and that if the LMS partner do not remain active then that could jeopardize their ability to access mitigation funding. This discussion also involved the letters of support and how OEM is happy to provide them to LMS members for any type of funding they may be applying for but they must be an active member of the LMS. LMS members were reminded that if they are going to apply for any type of grant please let the LMS Coordinator know so that they can create a letter of support and make sure their project is updated accordingly.

Attendees were reminded not to wait until the deadline to apply for a grant. Get your application in early to help accommodate the State's review and allow for time to provide additional information. The State has told OEM that the two main important components to project submittals are a good project description and a Benefit Cost Analysis (BCA) score. Once it is submitted the State will do additional reviews for technical, environmental and historical information.

Once an LMS member is awarded a grant, the work is just beginning and they need to let OEM know if they were awarded a grant and update the project. LMS members will be required to fill out reimbursement forms over the life of the grant and do quarterly reports. It is extremely important that they provide full documentation of all costs associated with the project and that the numbers align. This will need to be done in a timely manner. Charles Cyrille (OEM) added that if LMS members are a pass through agency for a grant that they may want to enter into a contract with the agency/homeowner that they are working with to ensure they understand their responsibilities in providing information for the grant. If they don't do it correctly the LMS member may be on the hook. Having a good documentation system is important and they may want to ensure that the way they are documenting things is acceptable to the State so they don't have a headache later on down the road and have to recreate their documentation.

Next OEM reminded everyone that their **annual updates are due by October 31<sup>st</sup>**. Mandatory fields have been added to the database to help ensure you don't miss any critical information.

The fields are highlighted in blue and have an asterisk next to them. The LMS members will not be able to save their project until they provide all of the required information. OEM have also changed the Funding Status selection. They can select from the following:

(Select)

Grant Applied For

Grant Awarded

Identified Funding Source

Funding Secured

Record Details	
* Agency Type:	(Select) ▼
* Agency:	▼
* Project Title:	
* Entry Type:	(Select) ▼
Original Date of Entry:	9/11/2015
Last Updated:	
* Status:	(Select) ▼
Hazard	
(Select)	
Flood	
Flood/Storm Surge	
Health	
Project Details	
* Project Type	(Select) ▼
* Address:	<input type="text"/> Get Address Map It
Longitude:	<input type="text"/>
Latitude:	<input type="text"/>
Flood Basin	
C1	
C100	
C102	
C103	
Project Completion	
* Completion Time frame:	<input type="text"/>
* Mitigation Goals:	(Select) ▼
* Funding Status:	(Select) ▼
Is a Match Required?	<input type="checkbox"/>
Match Identified:	<input type="checkbox"/>

And OEM have made the Funding Source a fill in the blank section so they can specify where they are getting or where they think the funding is coming from. If they do not know, they can reference Part 3 of the LMS for funding ideas or put FMA, PDM or HMGP if you cannot find any other sources. A question was raised regarding the project status, if it is Future Unfunded, LMS members would select Identified Funding Source and put the potential funding source in the fill in the blank section.

Starting in November the LMS Coordinator will start reviewing all projects in the list and if they have not updated projects this year, they will be marked Inactive and the LMS member will be notified. LMS members will have until December 31, 2015 to comply with all update criteria. If they do not do so by that time your project will not appear on the updated list that gets sent to the State in January. At the March 16, 2016 meeting OEM will make a motion for all projects that had not been updated be permanently deleted.



Next up was Aimee Bojorquez, from OEM, who talked about the new Mapper feature in WebEOC for LMS. Jackson Health Systems was the first one to go in to map one of their projects after the meeting. Here is a quick tutorial on how to do the mapping. We will provide more detailed information soon. Mapper will work from Chrome and from IE if you have Adobe Flash.

### **Conclusion**

The next meeting will be on December 9<sup>th</sup>, at a location to be confirmed.

## **December 9, 2015 Meeting**

The meeting was held at the Miami-Dade Fire Rescue Training Center Auditorium in Doral. A total of 61 people attended that represented 45 agencies. The following items were discussed at the meeting:

Cathie Perkins, LMS Chair, opened the meeting welcoming new attendees. General announcements included:

- OEM will host another L-278 class in the February/March timeframe. This four-day class covers the Community Rating System Coordinator's Manual. Class size will be limited and priority will be given to local communities first.
- OEM has prepared a draft document to address CRS Activity 610, Flood Warning and Response. They have received some comments that are being integrated, once it is complete OEM will submit to ISO.
- If an LMS member is a CRS community they were reminded that their jurisdiction must adopt the LMS if they plan to use it as their floodplain management plan. Please send copies of your adoption to Cathie Perkins, so they can be kept on file and incorporated into Part 4 of the LMS.
- LMS members are welcome to submit their Activity 510 to OEM as well. They will included in Part 7 of the LMS.
- SB 584 Flood Mitigation and Assistance was passed by the Senate Community Affairs Committee. SB 584 creates a matching grant program to provide up to \$50 million in technical and financial assistance to local governments to implement flood risk reduction policies and projects consistent with the coastal management element of a local government comprehensive plan, an approved local hazard mitigation plan, or an adaptation action plan. The current version of SB 584 can be found [here](#).

Scott Davis, Director of Public Works for Miami Shores, provided a presentation on their recent king tide flooding issues and how they addressed it. Miami Shores recently experienced issues with flooding with the astronomical high tides with water coming over the canal banks and also up through some of their storm drains. They installed inflatable plugs in the storm drains that could be deflated in case of rain. This helped with the part of the problems they were faced with. They needed a temporary solution along their canals where they had limited public property. This area during other recent king tides had a "river of water" running into a development of 118 homes. They looked at a number of solutions including sand bags and decided to go with a vendor called Trap Bags. (This should not be considered an endorsement of their products but this is an actual case study where this particular product was utilized by one of our LMS members.) The products is like an accordion barrier with reinforcements in it that you lay out and then fill with sand. Its lifespan is estimated at 5-10 yrs., some applications may

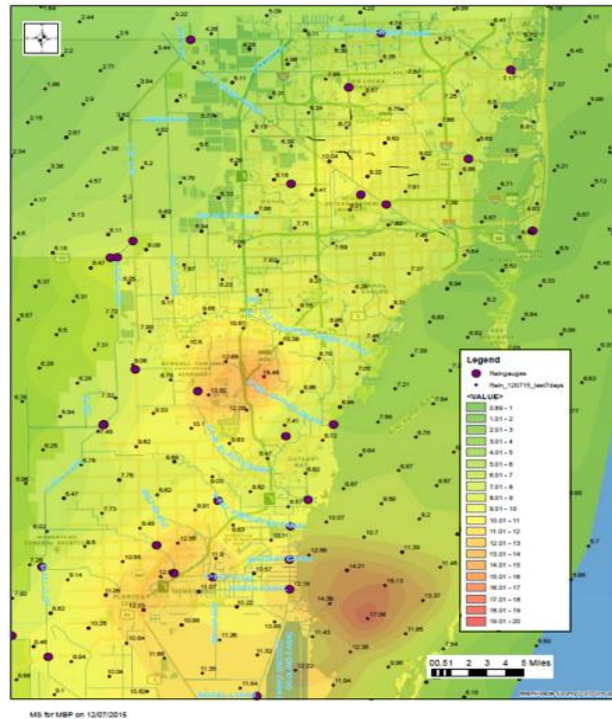




require UV protection to expand the lifespan. The product successfully held back up to 2 ½ feet of water with no leakage. Miami Shores took it down after the event as it was partially on private property and have identified a mitigation project of building a berm in this area for future king tides.

Next Marcia Steelman, Stormwater Utility Planning Division for Miami-Dade County, presented the maps that she created for the recent (early December) rainfalls. These maps illustrated the amount of rainfall for spans of 24 hours and 7 days and showed the accumulation in areas of the County. Ms. Steelman spoke to how with the recent rains that the groundwater table was higher than even a typical wet season and this impacted the ability of the rainwater to drain. The maximum infiltration into the ground is about 3 ½ inches per day so in areas where more than that amount fell in a short period of time or even 24 hours we saw ponding and flooding occurring. Cathie Perkins mentioned that these maps and rainfall and flood information was disseminated to a list of floodplain managers and public works personnel. Anyone wishing to be added to this list should contact Ms. Perkins.

7-DAY RAINFALL - 12/07/2015



Next up was Rick Stauts, Executive Director for the Florida City Community Redevelopment Agency, to present on the newly completed (just in time) Friedland Manor drainage project. Mr. Stauts talked about how they have pulled together numerous funding sources over the years going back to the early 2000's and some then El Niño funding. There are about 150 homes in the Friedland Manor area that experienced repetitive losses and for some events up to several feet of water in their homes. Florida City designed an underground drainage system with a ten acre holding pond. The water is pumped by two pumps, with a backup generator in case of power outages. The project was literally in its final stages but luckily far enough along when the rains came the first few days of December. Mr. Stauts said at one point during the design they were going to do a five acre holding area and when DERM assessed the project they said they needed to do 10 acres. Mr. Stauts recalled how at the time many people said they didn't need it to be that big because an event that required that much would probably not occur, but they got the extra land and expanded it to 10 acres. By Saturday morning, 3 ½ million cubic feet of water had been pumped into the holding pond, with water lapping over the top. Friedland Manor and all those homes were dry. Mr. Stauts noted some glitches in their operations but their first big test of their mitigation project was hugely successful. Mr. Stauts mentioned some additional projects that Florida City is looking at including culverts and an area around Palm Drive.



Next Erik Salna, FIU International Hurricane Research Center, provided the LMS members a recap of the 2015 hurricane season and the potential impacts that could be faced with for El Niño this winter. Rob Molleda from NWS Miami was kind to provide some slides since he could not be there. We can expect our winter to be wet with an increase in potential for severe weather after the New Year. There are more tornadoes in El Niño years than La Niña, tornado activity is most likely from February to April. Tornadoes are not very common in South Florida

but the County have had some and El Niño makes conditions “more favorable” for their development. The LMS members also saw that this year’s hurricane season was less than average and Mr. Salna showed a comparison of 2005 to 2015. 2005 was a La Niña year and that year saw an unprecedented number of storms. Erik talked about having a tornado survival kit, very similar to a hurricane survival kit, but really stressed the importance of a weather radio (or you can install an app on your smart phone) to alert people. Remember with tornadoes you do not get much warning time. The Storm Prediction Center in Norman, Oklahoma can model risk areas 2-3 days in advance so we should look for these advisories and then stay tuned to our local NWS Miami for additional watches and warnings.

Next up was Dan Rizza from Climate Central to talk to the group about the web tools that are available to communities on climate related research. Climate Central built the Surging Seas Risk Zone Map and Risk Finder as public web tools available at no cost. There may be some applicability of the Surging Seas app for CRS communities. Listed in the graphic here are potential CRS activities.

**Florida El Niño Severe Weather Awareness**  
*Public Awareness & Safety*

- **Monitor local television and radio for severe weather situations**
  - ✓ Such evolving threats are typically identified a few days in advance, with more specific information about the most likely time(s) and location(s) of impact provided one day in advance
- **Have the ability to receive timely weather warnings**
  - ✓ This can save lives, especially with dangerous, night-time tornadoes
- **Have a dependable alerting feature or device**
  - ✓ Ensure that you have a **NOAA Weather Radio** (programmed, with fresh batteries) and/or the **Wireless Emergency Alert** feature on your cell phone (or NWS warnings relayed by text message from Emergency Management or Media, or another reliable app)

**Melbourne**  
WEATHER FORECAST OFFICE

<http://www.weather.gov/melbourne>  
facebook.com/NWSMelbourne @NWSMelbourne

December 11, 2015

### ISO/CRS Specialist Feedback on Surging Seas Applicability for CRS

"After some review, we have determined that there may be some CRS credit for the tool. Please note, for all of these activities, there are specific criteria and prerequisites that must be met, and credit may be subject to impact adjustments.

1. Activity 320 – (M13) Providing Sea Level Rise information, M11 prerequisite, requires publicity and logs.
2. Activity 330 – Potential target audience with a PPI, all PPI criteria applies.
3. Activity 340 – Potential other hazard disclosure, requires regulations that require the SLR on deeds/plats.
4. Activity 410 – Potential higher study standard, depending on how the studies were conducted. Requires regulations that regulate to the SLR level.
5. Activity 510 – Can be useful in determining future conditions for hazard mitigation planning."

Mr. Rizza talked about the capabilities of the tool such as data downloads and reports. Here is a link where you can learn more about the [science behind the tool](#) and how they developed it. Mr. Rizza walked everyone through a quick demo of the tool and how they can select an area, put the level or sea level rise they want to assess risk for and then the subsequent data sets that are available.

- Thousands of localized data [downloads](#) available for Florida.
- Access Surging Seas [Risk Finder](#) for other states.

Mr. Rizza would like very much to get feedback from communities and to discuss how they might be able to improve their tools to assist local communities. Mr. Rizza can be reached at: [drizza@climatecentral.org](mailto:drizza@climatecentral.org) or 604-945-7821

Next Yahiritza Alvarez discussed the annual updates for projects. Currently there are 1,016 active projects on the list. In total for 2015, 18 projects have been reported as completed for the year. For those of you who have not done an update in the last few months, please go in and mark any completed projects so they can be counted for this year. In about September we made some adjustments to some of the fields and also made it so you cannot add a new or save an update to a project unless you have completed the mandatory fields. Please make sure you review your projects to ensure they have all the necessary info. We reiterated that a project should only be marked for “removal” if you actually want to have it permanently removed. When you complete a project it gets archived so we have historical record of it. You can access the archived projects for your agency under the “Archived” tab. (It is on your main page right next to the Active tab.)

Reminder to complete your BCRs. These should have been done by now. Remember if competitive funding becomes available this is one of the tools we use when prioritizing projects so this should be done for all projects you have in on the list. You do not have to do BCRs for projects that are underway or already completed.

We will continue to work with all of you to ensure your projects are up to date. There are a few dropdowns that contain an “other” option – we are going to be removing this in the future. If you have a suggestion for other items we need to add or consider, please let us know. This database is a work in progress but it is capturing so much and now that we are mapping, is a great illustration of where you are all mitigating.

Since we had time at the end of the meeting, believe it or not, we had Buzz Ward from Trap Bag talk on his product and he had a sample on the side of the room and brochures available. He showed how they have used it for Hurricane Sandy and other applications like for landslides in redirecting mud flow. For more information on their products you can go to [buzz@trapbag.com](mailto:buzz@trapbag.com) 239-229-5285 [www.trapbag.com](http://www.trapbag.com)

Our next meeting will be March 16, 2016. If anyone is interested in hosting, we need room for about 80 people and parking, let me know. One other announcement that was made was that Cathie Perkins was recently promoted to Planning Bureau Manager and an assurance that at this point will continue to be the Chair for the LMS. The meeting was adjourned.

## 2016 Meeting Minutes

### March 16, 2016 Meeting

This meeting was conducted by webinar and a total of 57 people participated which represented 43 agencies. Out of the 55 people who took the post webinar survey, 53 said they liked the format and 53 said they would like us to offer at least two of the meetings per year via webinar.

Here are the highlights from the meeting:

- Statewide Hurricane Exercise will be held on May 18<sup>th</sup>. OEM will be activating the EOC in the morning and host the Divisional EOC and other EOC representatives. They will be offering a segment just for CRS and flooding concerns and OEM have a survey mon-key [tool](#) open for input.

OEM has received feedback from a few people and they will be moving forward with the planning for that component in Early April.

Zika Virus – the message continues to be Drain and Cover. Florida Health in Miami-Dade County and the Miami-Dade Department of Transportation and Public Works, Mosquito Control Division are actively monitoring, educating and spraying. If any LMS members need any outreach materials they can find them [here](#) . As of the March 16<sup>th</sup> there were 30 cases of Zika in Miami-Dade County and all of them travel related.

- OEM has submitted Activity 510 and 610 to ISO for review for CRS credit. Under the LMS if an LMS member is a CRS community and have done a local adoption, they can get 211 points for Activity 510. OEM is happy to share with the LMS members what OEM submitted so if they do activities above and beyond they can get additional credits. OEM were asked to submit some additional documentation for Activity 610 to get points and are currently working on that. If any LMS members have done a local adoption of the 2015 LMS please send Ms. Perkins a copy. If a LMS member needs some sample language, let Ms. Perkins know and she will be happy to pass along the ordinances that some other local communities have done. OEM have Dropboxes for the Activity 510 and 610 items we submitted.
  - [Activity 510](#)
  - [Activity 610](#)
- Current funding opportunities that are open include the following
  - Flood Mitigation Assistance (FMA)
  - Pre-Disaster Mitigation (PDM)
  - Residential Construction Mitigation Program
  - Small Business Association Loans

The FMA and PDM applications are due to the State by May 3, 2016 5:00 pm.

If you are applying please let Ms. Perkins know so she can write a letter of support. The following conditions must be met to get a letter of support:

- They must be an active member of LMS
- The project must be on the list and have all of the required fields completed

Please try to give Ms. Perkins a two-week notice so she can ensure to get it to the LMS member in plenty of time. Also include the project number and which grant is being applied to and remember to update the project to "Funding Applied For".

OEM discussed the funding priorities per the guidance that was sent out. Ms. Perkins attached the funding guidance and the power point presentation. Briefly for FMA the Severe Repetitive Loss and Repetitive loss projects will have the highest priority. For PDM, FEMA will prioritize communities that do not currently have HMGP funding and is looking at Climate Resilient Mitigation Activities (CRMA), including Aquifer Storage and Recovery (ASR), Floodplain and Stream Restoration (FSR), and Flood Diversion and Storage (FDS); and pre- or post-wildfire mitigation activities or any mitigation action that utilizes green infrastructure approaches. The State of Florida is looking for non-flood projects and include generators for critical facilities.

There will be a FEMA webinar on the Climate Resilient Mitigation Activities on Thursday, March 24, 2016 1pm (EST)

FEMA ADOBE Connect: <https://fema.connectsolutions.com/crma/>

Call-in Number: 1-800-320-4330 PIN 789819#

If there are additional questions about the mitigation funding please contact Susan Harris-Council, Project Manager

[Susan.Harris-Council@em.myflorida.com](mailto:Susan.Harris-Council@em.myflorida.com)

(850) 414-8419

The RCMP funding is for hurricane for residential structures and can be applied for by communities, nonprofits and State agencies. If the LMS members have additional questions, please contact [Tara Walters](#) in the State DEM Procurement, Office Phone at (850) 410-1391.

**SBA Loans** – due to the economic losses and flooding in Miami-Dade County in December, SBA will make available to qualified applicants SBA loans. Loans are for uninsured losses and can be for up to \$2 Million.

Applicants may apply online using the Electronic Loan Application (ELA) via SBA's secure website at <https://disasterloan.sba.gov/ela>.

Disaster loan information and application forms may also be obtained by calling the SBA's Customer Service Center at 800-659-2955 (800-877-8339 for the deaf and hard-of-hearing) or by sending an email to [disastercustomerservice@sba.gov](mailto:disastercustomerservice@sba.gov). Loan applications can be downloaded from [www.sba.gov/disaster](http://www.sba.gov/disaster). Completed applications should be mailed to: U.S. Small Business Administration, Processing and Disbursement Center, 14925 Kingsport Road, Fort Worth, TX 76155.

**WebEOC mapping of projects**

Yahiritza Alvarez demonstrated how to map projects for the LMS board. OEM is working on getting them color coded by status. Ms. Alvarez is developing a simple guide on how to use Mapper and Ms. Perkins will send it out when it is available.

**Many Thanks to Ed Bowe of Homestead**

We offered our best wishes to Ed Bowe, who was a founding member of the LMS and has been an advocate both for LMS and for the EOC. The LMS members wished him good luck, because he is retiring in May 2016.

**Next Meeting**

The next meeting will be on June 15<sup>th</sup>. OEM is looking for a place to host it.



**June 15, 2016 Meeting**

This meeting had 34 people participate, representing 26 agencies. Thank you to the City of Homestead and Linda Blanco, Homestead's Building Official, for hosting this meeting in the city hall building. This building is an LEED Silver certified and offers amenities to the employees including shower facilities to encourage biking to work and working out during the day. The building is rated for Category 5 hurricanes and contains their Emergency Operations Center that will host the various satellite municipalities and the Miccosukee Tribe representatives.

The meeting began with the following announcements:

- Miami-Dade Emergency Management is conducting the 2016 Evacuation Survey and OEM asked that everyone help get the word out to the public. Postcards with the survey information available have been created and LMS members were encouraged to post the following link on their websites and social media pages: <http://www.miamidade.gov/hurricane/>



This site will also provide information for the public so this is a link to refer constituents to for information. As of today OEM have had 783 completed surveys. They are aiming for 2,500 so OEM can have a good representation of the community.

OEM stressed the continuation of the "Drain and Cover" campaign that Miami-Dade Department of Solid Waste is promoting to educate residents on what they can do to help reduce mosquito breeding and protect themselves from getting bit. Additional educational material is available [here](#).

- OEM continue to work on the Community Rating System program. Congratulations to The Village of Pinecrest who is entering the program as a Class 8 and effective October 1 their residents will see a 10% discount on their flood policies as they are renewed. Cutler Bay is awaiting their final reviews to see what their score will be. Miami Springs and Medley are also working on entering the program.
- Rob Molleda from the National Weather Service Miami presented on all things hurricanes. Even though there has already had three names storms (and a new depression over the weekend) this is not necessarily an indicator for how the rest of the season will be. El Niño is gone and La Niña is here. With La Niña is typically less wind shear which could help promote formation more. The stormiest weather in terms of thunderstorms and rain can be expected from mid-May to early July. Hotter temperatures with some dry periods (with Saharan dust) are expected early July through mid-August and from late August through mid-October the County may see highly variable precipitation. Mr. Molleda stressed the threat of storm surge and noted that during Hurricane Andrew that the surge was about 17 feet in south Miami-Dade County and during the 1926 storm

there was 2 feet of sand on Collins Avenue. Starting in 2017 the watches and warnings will start to be issued for storm surge to help communities be better aware.

Mr. Molleda talked about the tracking cones of hurricanes and reminded everyone that that only shows where the eye of the storm will be 2/3 of the time. This does NOT account for the wind fields and storm surge and 1/3 of the time the eye of the storm may be outside of the cone. Once we get within 3-4 days of a storm we need to look at the local conditions that will impact us.

- Jose Palacios from Peninsular Insurance Bureau Adjusters talked about the insurance perspective. Mr. Palacios said from the insurers' side they are identifying and mobilizing as many adjusters as possible to respond to the areas that may be or have been impacted by an event. He spoke about how the insurance companies try to spread the risk to disasters and after Hurricane Andrew and the storms of 2004-2005 many insurance companies left Florida and the Citizens Hurricane Insurance program grew. Re-insurance grew as an industry, this is a practice where insurance companies seek insurance from other companies to spread the risk. He talked about the insurance discount program for homeowners who implement mitigation measures that can include roofing straps, window and door protection. LMS members can go [here](#) for a calculator on potential savings. Mr. Palacios also said that there may be changes as to how people can get flood insurance as private insurers are looking into offering this as well.
- Tiffany Troxler, the Director for the FIU Sea Level Solution Center, spoke to the group about integrating educational institutions into mitigation. Dr. Troxler has been very proactive in working to help educate communities about the risk of sea level rise, mitigation and the community rating system. To improve understanding of localized flood conditions and develop information for baseline monitoring of flooding and flood mitigation improvements, municipalities can coordinate with the Florida International University Sea Level Solutions Center ([slsc.fiu.edu](http://slsc.fiu.edu)) to develop an activity for collecting this information. We will help coordinate students to support data collection and documentation with on-site measurements and use of our Eyes on the Rise application ([eyesontherise.org](http://eyesontherise.org)), created by the FIU School of Communication and Journalism and GIS Center.

For King Tide flooding events expected this fall, FIU will be organizing an event on October 16, 2016 - Sea Level Solutions Day. As part of this event, OEM will be conducting flood monitoring activities and may be able to include locations from your area. Other dates can also be considered. Please contact Brad Schonhoff or Tiffany Troxler via [slsc@fiu.edu](mailto:slsc@fiu.edu) if you are interested to organize a flood monitoring activity.

The meeting was adjourned.

**September 21, 2016 Meeting**

This meeting was conducted via a webinar and had 49 people in attendance.

**Announcements**

- OEM will be having a FEMA evaluated Turkey Point exercise in February of next year. For those CRS communities that are within the emergency planning zone for Turkey Point this is another opportunity for exercise credit.
- OEM will hold our annual hurricane exercise with a flooding component as well, most likely around mid-May 2017.
- November 2-3 there is a G393 Mitigation for Emergency Managers class being offered in Broward County. Individuals can register at: <http://trac.floridadisaster.org/trac/loginform.aspx>
- The 8<sup>th</sup> Annual Southeast Florida Regional Climate Leadership Summit will be in Palm Beach County Oct. 5-6. <http://www.climateleadershipsummit.com/>
- Sign up for Miami-Dade Alerts to be notified of tornado and tropical cyclone warnings. <http://www.miamidade.gov/alerts/>
- A free training from NOAA is available for GIS folks the week of December 12<sup>th</sup>. Certification credits are available for AICP, GISP and CFMs. (see presentation slides for more info) to sign up email Katie Hageman at [hagemk@miamidade.gov](mailto:hagemk@miamidade.gov)
- The CRS manual will have minor updates in 2017 and will undergo another major review and update in 2020. Trainings on the CRS program and manual updates can be found at [www.crsresources.org/training](http://www.crsresources.org/training)

**Guest Speaker – Shari Holbert Lipner - Miami Beach Zika Virus Response and Messaging**

Ms. Lipner gave a presentation on how the city has been addressing mosquito abatement and the Zika virus. Miami Beach took a very pro-active stance early on with setting goals and objectives:

- Educating stakeholders
- Knowing that they could not stop but could perhaps delay transmission through mosquito abatement
- Respond and mitigate with effective vector control
- Protect vulnerable populations
- Disseminate accurate, timely and consistent information (this is really key and huge reason why the Joint Information calls are held and why we (OEM) created a repository at the County level to share all information so everyone can have the same messaging)

Ms. Lipner walked everyone through the timeline of when Miami Beach began their monitoring (back in January) and actions they took within their city. Miami Beach attended meetings and conference calls to help themselves get up to speed with what Zika was and what they could do to help minimize the risk of their employees and residents. They met with key departments in February and started including information in their daily City Warning Point emails that go to all employees. In May they addressed how to protect employees and

developed an Exposure Control Plan. Ms. Lipner wrote an article entitled Mitigating Mosquito Mayhem (attached to the email sent with this bulletin). Miami Beach continued their proactive measures and continues to be active as they are dealing with local transmitted cases and the first Zika positive mosquitos as well.

Miami Beach has continued to promote the Drain and Cover messaging and has been doing a lot of education on bromeliads and how people either need to be responsible bromeliad owners which means they need to ensure they are treating them/vigorously washing them out. They implemented Code Compliance measures that include fines for people who do not remove or treat standing water. Their police officers have information on hand that they can pass out to residents/visitors on Zika and mosquito control as they are often asked questions. Their Housing and Community Development Department ensure that the homeless populations are provided transportation, temporary shelter and a nice breakfast when the aerial sprayings have occurred to help protect them and after the spraying their Parks personnel rinse down the tot lots, outdoor drinking fountains and tables that may be used by the public. They have engaged multiple departments and made the effort a citywide response.

The County has Drain and Cover door hangers and rack cards available in English, Spanish and Creole. Let OEM know if you need any and they will let you know where you can pick them up. OEM will be hosting another Mosquito Abatement Training on Tuesday, September 27, 2016 at the MDFR Training Center Auditorium at 1:30 pm.

### **LMS Updates**

The annual updates are due by October 31<sup>st</sup>, below are the important points when LMS members need to do their updates:

- Municipalities must have at least one project on the list to be considered an active LMS member
- All projects are to be updated at least once per calendar year. Please go in and review all of your projects and make any updates. Even if there are none, hit save and it will update the "last updated date" and you are all set.
- Please verify the contacts for each of the projects.
- Ensure the project includes the funding source, the completion date to the year or month/year it was completed, the final cost and if available attach photos or articles.
- All projects should have the Benefit Cost Review score completed. If the project does not have this score, then if a competitive grant award (HMGP) is awarded to the County then the project will not be considered a priority.
- If the project was "new" last year, then this year it should be updated to "Update".
- If the following is selected "removal" or "project deleted" – Ms. Perkins will follow up with the LMS member before it is permanently deleted.
- If an LMS members wants to defer a project – put it on hold for now.
- Inactive projects are also projects that have not been updated within the one year time frame until they are either brought back up to date with all required fields or deleted.
- Completed projects should not be marked for removal - OEM archives those so they can keep records.

- Please provide an exact address or cross streets or perimeters of the project so it can be mapped on WebEOC.

If an LMS member doesn't have an account and want to add projects, let Ms. Perkins know and she will create one for a member.

### **State LMS Update**

The State is in the process of updating their plan for its 2018 submittal to FEMA. If LMS members are interested in working on their plan they have a number of committees that members can volunteer for:

- Risk Assessment Committee
  - This Committee will be responsible for updating Section 3: Risk Assessment, including vulnerability of state assets and jurisdictions, updating data as necessary based on new information, and documenting changes in development.
- Strategy Committee
  - This Committee will be responsible for updating Section 4: Goals and Capabilities and Section 5: Funding and Projects. It will also assist in the updating of other aspects of the SHMP including prioritizing mitigation actions; program and capability updates; and demonstrating progress.
- Planning and Maintenance Committee
  - This Committee will be responsible for updating Section 1: Introduction, Section 2: Planning Process, and Section 7: Plan Maintenance.
- Enhanced Plan Task Force
  - This Task Force will be able to work with all three committees to ensure the entire plan meets the requirements of an Enhanced Plan.
- SRL Task Force
  - This Task Force will be able to work with all three committees to ensure the plan addresses RL/SRL appropriately.
- EMAP Task Force
  - This Task Force will be able to work with all three committees to ensure the plan meets the EMAP Standards.

If anyone is interested, please take a moment to [sign up here](#) to be part of one of their committees via the below link.



**December 14, 2016 Meeting**

A total of 68 people attended that represented 34 different agencies.

Here is what we covered:

**Announcements**

- Reminder to all LMS Working Group members with projects that they must be completely updated by December 31<sup>st</sup>.
- There is a grant writing class being held in Broward County for free on Tuesday, February 7<sup>th</sup>. (See Flyer attached to the email with this bulletin.)
- Miami-Dade County offers free trainings and workshops. Go to <http://www.miami-dade.gov/grants/>. Terry Parker is the point of contact and their # is 305-375-1459.
- Doral is hosting the Advanced Floodplain Management Concepts II class January 30 - February 2<sup>nd</sup>. For more info contact Mark Haggerty [mark.haggerty@cityofdoral.com](mailto:mark.haggerty@cityofdoral.com).
- Ms. Perkins will be reaching out to municipalities to get updates on the mitigation measures they are implementing locally – through new ordinances or new participants in the CRS program.

The main part of the meeting focused on the 100 Resilient Cities presentation by Stephanie Tashiro (Miami) and Amy Knowles (Miami Beach). Greater Miami and the Beaches was awarded a grant from the Rockefeller Foundation to assist with planning to be a more resilient community socially, economically and physically. The goal is for the local communities to help identify what is the best strategy to deal with the shocks (immediate impacts like disasters) and the stressors (chronic conditions like poverty) that the County faces now and how things may be further impacted by urbanization, globalization and climate change. Ms. Knowles and Ms. Tashiro launched an interactive survey and dialogue as part of a series of public meetings to gather input. Everyone present helped inform the conversation about not only our work priorities but also our personal priorities and concerns. This process will continue with gathering data and then compiling it to identify what the future actions will be. There will be an online component to this as well, so if a LMS member missed the meeting they will have an opportunity to help provide input. More information on the 100 Resilient Cities is available [here](#).

The second presentation of our meeting was by Susan Jacobson from the FIU School of Communication and Journalism who reported on engaging citizens in sea level rise, a project that was conducted by the FIU Sea Level Solutions Center. FIU engaged community members and armed them with tape measures and salinity test kits to help document the recent king tides on October 13 and November 13.



The Sea Level Solutions Center identified locations and times for community members to go so, they could assist with reporting data. The reports were plotted on a Google map with attached measurements and pictures. There was a report of more than 12 inches of flooding in central Virginia Key.

Flooding at Sewell Park in Miami, over 18". On Purdy Avenue on Miami Beach, fish could be found on the sidewalks.

FIU gathered great data and we talked about how the LMS partners can assist with data collection. FIU will continue to develop this toolbox and also works with the Code for Miami which meets the last Monday of every month in Wynwood. Ms. Jacobson email address is [sujacobs@fiu.edu](mailto:sujacobs@fiu.edu).



## **2017 Meeting Minutes**

### **March 15, 2017 Meeting**

A total of 68 people representing 51 different agencies attended this webinar.

#### **Announcements**

- There will be an Open House at NWS Miami on Saturday March 18<sup>th</sup> from 10:00 am – 2:00 pm 11691 SW 17 Street, Miami 33165
- The Statewide Hurricane Exercise will be held on May 3<sup>rd</sup>. This year the seven Divisional EOCs will activate and host the Satellite EOCs. For the CRS communities that need the credit they should coordinate with the relevant Divisional EOC to ensure representation on the exercise day. If you have questions contact Yahiritz Alvarez - [yda@miamidade.gov](mailto:yda@miamidade.gov) or 305-468-5424
- The 100 Resilient Cities partnership for Greater Miami and the Beaches has opened a survey to get feedback from the community in relation to what their concerns are now and in the future with climate change and sea level rise. Please post or send out the following Survey Monkey link to help get the community to take the survey, <https://www.surveymonkey.com/r/gm-b> the survey is available from that location in English, Spanish and Haitian Creole.
- On March 30<sup>th</sup> from 1:00 – 3:00 pm there will be a Whole Community Engagement Meeting to discuss trending topics such as screwworm and rabies updates, emergency shelters, preliminary damage assessment and Zika. It will be held at the MDRF Training Auditorium (building behind EOC) at 9300 NW 41 Street in Doral.
- There will be a Mosquito Abatement Meeting on April 3, 2017 from 9:30 – 11:00 am in the MDRF Training Auditorium at 9300 NW 41 Street in Doral. OEM will make available the Drain and Cover door hangers, rack cards and posters in English, Spanish and Haitian Creole for LMS members to pick up and disseminate/display in their community. Please contact Cathie Perkins if you are interested in attending or picking up materials. [perkins@miamidade.gov](mailto:perkins@miamidade.gov) or 305-468-5429.
- There will be a FEMA Coastal Flood Map Technical Update Meeting on March 28<sup>th</sup> from 10:30 – 12:00 in the MDRF Training Auditorium at 9300 NW 41 Street in Doral. This meeting is a follow up for the new proposed FEMA Coastal Flood Maps that are being updated and ensuring we have incorporated any local knowledge to help information flood risk areas.
- On May 12<sup>th</sup> NOAA will be hosting the National Hurricane Tour at Opa-locka Airport. It will be open to selected public schools in the morning and then to the public from 2:30 – 5:00 pm. There will be two hurricane hunter planes on site with educational presentations, static displays and informational booths. If a member is interested in having a table at the event to help promote any hurricane preparedness information.

Please contact Cathie Perkins at [perkins@miamidade.gov](mailto:perkins@miamidade.gov). This may be a good opportunity for CRS communities to have someone to speak on flooding issues and have information on hand. Currently, there will be about 1,000 school kids in the morning and about 1,000 people from the public.

- There will be a Hazard Mitigation Grant Program (HMGP) Webinar on March 22<sup>nd</sup> at 9:00 am to discuss monies from Hurricanes Matthew and Hermine. Please [register here](#).

### State Hazard Mitigation Plan update

The state is working on the update for their plan. They have sent a copy of the risk matrix and the ranking of the hazards for all the Counties. During the meeting, we discussed it and encouraged everyone to review and provide feedback.

County	FL	DF	HU/TS	TO	SS	WF	DR	EH	WS	FR	ER	SH	LS	SM	TR	TC	MM
Lee	M		M	M	H	H	M	M		H	H						
Leon	M		L	M	H	M	M					H			L	M	
Levy	H		M	H		H	H	H		H	M	H					
Liberty	H		H	MH	H	H	MH	H	MH	H	H	L					
Madison	H		MH	M	H	M	H		MH							H	
Manatee	H	M	H	H	H	H	H	M	L	L	M	L		L	H	H	
Marion	H		L	M		M	L	L	L		L	M					
Martin	H	L	M	M	H	M	L	L			M	L		L	L	M	L
Miami-Dade	H		H	H	H	L	M		M		M						
Monroe	H		MH	H	H	MH	L	L		L	H						

#### Codes for each Hazard

##### Key for Hazard Summary Table

- H- High Hazard Ranking (mapped in Red)
  - One or more occurrences each year
- MH- Medium/High Hazard Ranking (mapped in Blue)
  - One occurrence every 3 years
- M- Medium Hazard Ranking (mapped in Yellow)
  - One occurrence every 5-7 years
- L- Low Hazard Ranking (mapped in Green)
  - One occurrence every 10 years
- Not Identified (mapped in Tan)

- DF- Dam Failure
- DR- Drought
- EH- Extreme Heat
- ER- Erosion
- FL- Flooding
- FR- Freezes
- HU/TS- Hurricanes and Tropical Storms
- LS- Landslides
- MM- Mass Migration
- SH- Sinkholes
- SM- Seismic Events
- SS- Severe Storms
- TC- Technological Events
- TO- Tornadoes
- TR- Terrorism
- WF- Wildfires
- WS- Winter Storms

The State will send out a draft of the Hazard Profiles soon and OEM stressed the importance of getting local reviews and input to ensure that any hazards faced here locally are documented in the State plan to ensure that the County's unique concerns are included.

**Impacts Catalog**

The guest presenter for the meeting was Arlena Moses from National Weather Service Miami to discuss the Impacts Catalog and how you can help. The NWS Miami wants to ensure they best understand your thresholds/criteria for different weather hazards and how they impact your decision making. The NWS Miami wants to be able to create better tools to enable them quickly to identify potential weather threats based on your hazard assessment input.

The next meeting will be on June 21, 2017, from 9:30 AM – 11:30 AM.



**June 21, 2017 Meeting**

This meeting was attended by 40 people representing 27 different agencies.

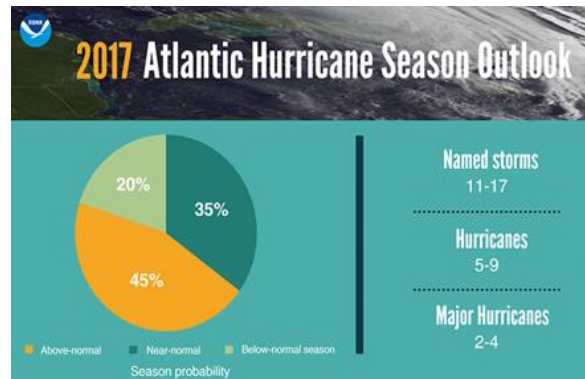
**Announcements**

- The Senate has confirmed the new Director for FEMA. Brock Long who served as a previous Director of Emergency Management for Alabama and currently works for Hagerty Consulting will be sworn in soon.
- The proposed federal budget includes cuts to the National Flood Insurance Program. This includes eliminating the funding to the RiskMAP program. The NFIP program is up for reauthorization the end of September and this may have a big impact on the State. Florida has more NFIP policies than any other state and Miami-Dade County has most of those policies. Surcharges that may be added onto the program will be passed onto the policy owners. Getting into and maintaining the status in the Community Rating System will be essential to helping residents save money.
- The state recently provided OEM with the Environmental and Historical Preservation class. Federal dollars that are received may be subject to EHPA considerations. Some of the items LMS members should be taking into consideration can be found [here](#) in the Florida Greenbook.
- Miami-Dade County is updating their Comprehensive Development Master Plan. Comments can be provided via this [link](#).
- Katie Hageman reported that the County recently wrote a report on which roadways are vulnerable to flooding and sea level rise. The report points to two resources in a recent FHWA administration study that identified major roadways that are currently vulnerable and FDOT/UF's [tool](#) that is an online tool where users can explore in more detail future impacts.
- Miami-Dade ITD and OEM are working with the DSWM and DTPW to create a real-time tracking tool for debris clearance and removal. This will be rolled out to municipal and the State DOT for their usage as well to help track the status of debris issues real time after an event.
- Miami-Dade OEM continues to work with the ARM360 vendor for the update of the damage assessment system that will include the Android and IOS versions.

## 2017 Hurricane Season and Products Presentation

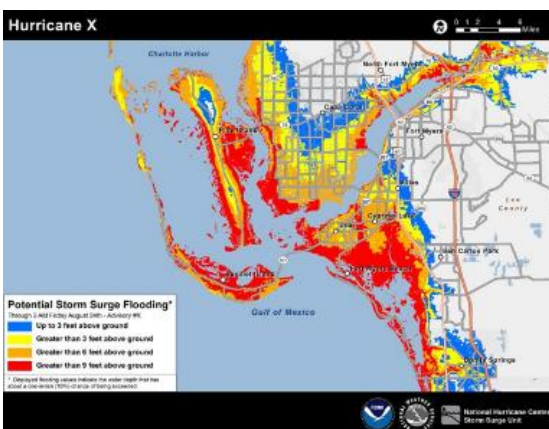
Rob Molleda of NWS Miami was kind enough to provide an annual update on the hurricane season and new products that are available to the public this season. Though Mr. Molleda provided the 2017 Hurricane Season Outlook. The current conditions of warmer waters and less wind shear can increase the formation of storms.

This year you will see some changes in the National Hurricane Center products that will be made available.



The overall look of the tropical advisory graphics has been designed to have a “cleaner” look and feel. It will display the initial wind field size of the storm and not just the cone. Remember the cone shows where the center of the storm is 2/3 of the time but does not show the extent of the winds. The new image shows the extent – in this case (to the right) of tropical storm force winds. If there were hurricane force winds they would be indicated in the red-dish-brown color in the key at the bottom of the graphic.

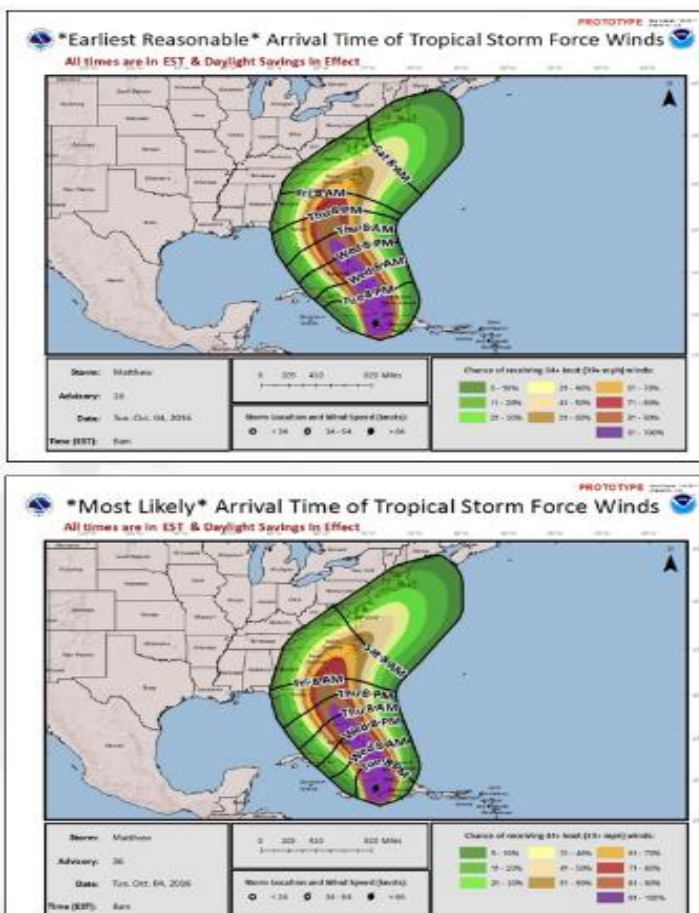
Storm Surge Watches and Warnings will be issued this year to help notify the public of the greatest threat to life for hurricanes. Storm Surge Watch indicates there is a possibility of life-threatening inundation within 48 hours and the Warning within 36 hours to these areas. Remember except for mobile homes residents and electric dependent folks, this is the reason we issue evacuation orders. There will also be a Potential Storm Surge Flooding Map to show how much inundation may be expected.



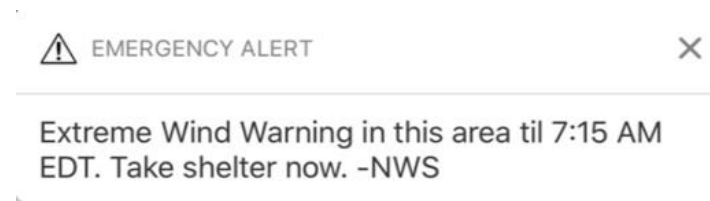
One of the most important things once you know a hurricane is coming your way, is to start monitoring what the local impacts are going to be. The National Hurricane Center and National Weather Service Miami have a great new Hurricane Threats and Impacts (HTI) page that will give you information on the winds, surge, flooding, rain, and tornado threats.

There is also an experimental Time of Arrival Graphic that will show the Earliest Reasonable and the Most Likely arrival times for Tropical Storm Force Winds (TSFW). From an emergency management and preparedness point of view the Earliest Reasonable will be a good guide for when you should plan to have everything battened down and get all of your personnel to safety.

The Potential Tropical Cyclone development is the other new product this year. There have been several storms that have developed just off the coast and since the systems did not have closed circulation there was no product available to issue advisories, watches or warnings. The NHC starting this year will issue Potential Tropical Cyclone products when there is a threat of tropical storm or hurricane conditions to land within 48 hours.



If needed, there will also be Extreme Wind Warnings issued for an area when there is a Category 3 or higher storm and there are sustained surface winds of 115 mph or greater expected to occur within one hour. If you hear this warning you should seek shelter within your shelter. Look for those interior rooms/closets without windows.



To notify the public of the threats in the area the Wireless Emergency Alert (WEA) system will include the issuance of Hurricane Warnings, Extreme Wind Warnings and Storm Surge Warnings.

The experimental NHC products will be utilized this year and are open to comment. You can send feedback to the NHC on the various new products at <http://www.nhc.noaa.gov/experimental/?text>

**Community Rating System**

Josh Overmyer, CFM, from the State CRS Initiative provided updates to the CRS Manual. The 2017 CRS Coordinator's manual is now available. If you recently had your cycle visit you will continue to use the 2013 CRS manual until you have your next 3/5-year cycle visit. When you have, your next cycle visit you should use the 2017 manual. The updated manual is [here](#).

Miami-Dade County residents save approximately \$34 Million a year on their flood insurance policies due to the hard work and diligence of their communities. The new ISO representative for the area is Craig Carpenter who can be reached at [BCarpenter@iso.com](mailto:BCarpenter@iso.com) or 404-825-3003.

**State Hazard Mitigation Plan update**

The State continues to work on their plan update. They are asking for input on their hazard analysis. The documents are available [here](#) until June 27<sup>th</sup>.

If you have any comments or concerns about their profiles, please let Ms. Perkins know so she can compile the comments and send them up to the State. They currently have drafts of the following hazards:

- Winter Storm and Freeze
- Wildfire
- Tsunami
- Tropical Cyclone
- Severe Storm
- Seismic Event
- Geological Event
- Flood
- Extreme Heat
- Erosion
- Drought

The next meeting will be on September 20, 2017, from 9:30 AM – 11:00 AM as a webinar. You can register at [this link](#).

### **November 15, 2017 Meeting**

The scheduled September 20, 2017 meeting was cancelled due to Hurricane Irma. In lieu of the quarterly meeting a special meeting was held on November 15, 2017 for a discussion on Mitigation Opportunities under 406 and 404 mitigation, the Environmental and Historic Preservation considerations and how the Local Mitigation Strategy Working Group will move forward with the pending Hazard Mitigation Grant Program. Presentations were provided by FEMA representatives who also responded to questions from the LMS WG.

The PowerPoint presentations that were provided can be made available upon request.



**December 13, 2017 Meeting**

There was 62 people representing 48 different agencies in attendance.

**Announcements**

- Tornado Awareness training on January 17<sup>th</sup> from 8:30 – 4:30 at the MDRF Training Center to register go to <https://ndptc.hawaii.edu/training/delivery/2002/>
- Per the State, they believe the HMGP announcement will come out in early January 2018.
- Tetra-Tech is doing an After Action on Hurricane Irma and the County's response. We welcome input from our partner agencies so we can best understand what you feel went well and areas that may need improvement.
- When an LMS project is completed please mark it as "Project Complete", update the timeframe to include the year or month and year, update the total cost and how it was funded under the funding source and if possible add pictures of the finished project.
- The Intent to Apply form for HMGP Hurricane Irma monies is due to the LMS Chair by 5:00 pm on January 12<sup>th</sup>. The excel form is included in the email with this bulletin.
- The annual update of the LMS is underway and OEM will be including the updated list of projects to the State, updates to any legislative or policy measures that LMS members have that incorporate mitigation into their organization, updates to our hazards and recent impacts. LMS members were instructed to send any updates ASAP as the report is due to the State by January 31, 2018.

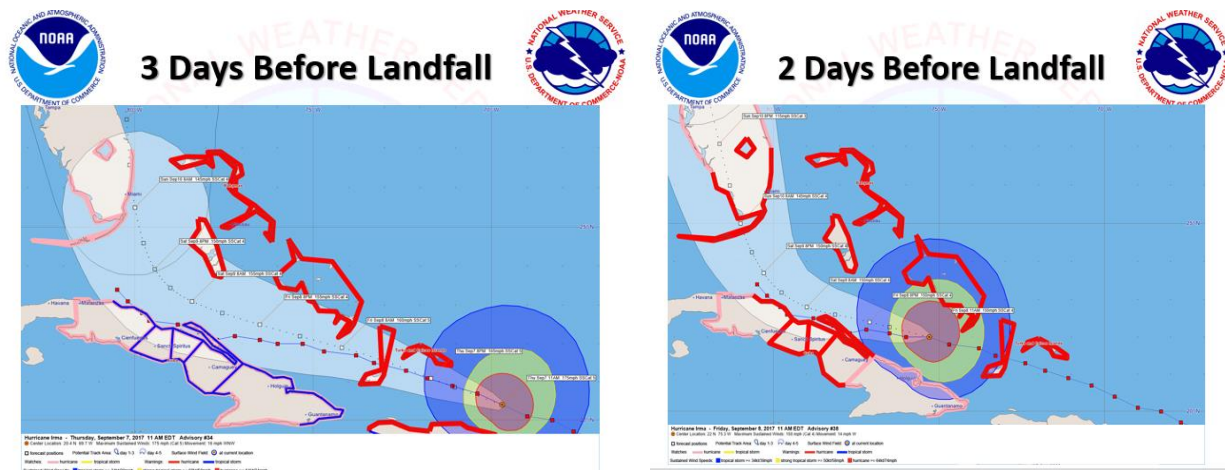
**Guest Speakers**

Kim Brown, Supervisor of Long-Range Planning, from RER presented on the Evaluation and Appraisal Report (EAR) for the Miami-Dade County Comprehensive Development Master Plan (CDMP). The CDMP sets a broad vision for how the County is going to grow and develop over time, this is required by State law. This helps guide Capital Improvement Programs, and ensure that Regulations and Development Approvals are consistent. The CDMP must be evaluated every 7 years and reflect changes in State law. The County conducts a comprehensive review and assessment of major issues and reviews the progress towards meeting goals, objectives and policies and identifies needed changes. There are 12 different elements included in the CDMP: Land Use, Transportation, Water, Sewer and Solid Waste, Coastal Management, Conservation, Aquifer Recharge and Drainage, Intergovernmental Coordination, Housing, Capital Improvements, Recreation and Open Space, Public School Facilities, Economic, and Community Health and Design. You can find out more information about the CDMP at: <http://www.miamidade.gov/planning/cdmp.asp>

Ms. Brown provided an overview of each element to show the importance of the work being done through this planning process. Of key importance to all of our communities are the

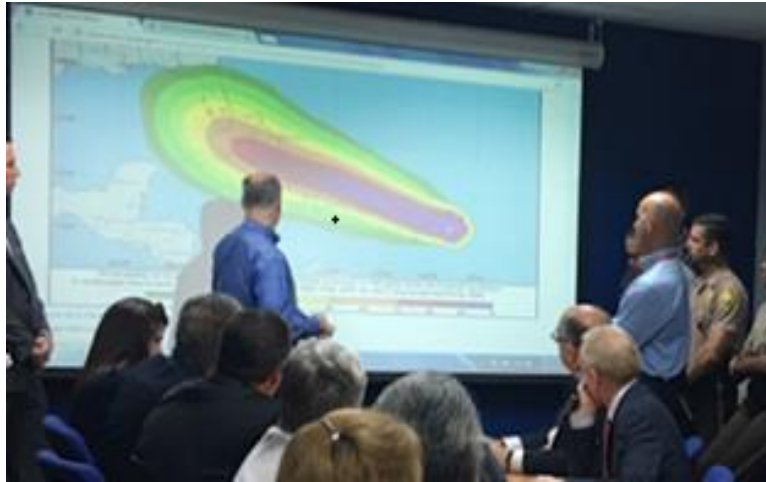
Coastal High Hazard Areas (CHHA), those that are below the elevation of the Category 1 Storm surge line, and limiting public expenditures and development in those areas. Ms. Brown provided an interesting projection that the County will grow from the current population of 2.7 million to 3.4 million by 2040. By 2030 the housing supply within the current Urban Development Boundary (UDB) is projected to be depleted. Agricultural lands which support our economy as the second largest sector are critical. 52,000 acres of agricultural land are needed to maintain a viable agricultural industry and 57,000 acres fall outside of the UDB. As developers look for more places to build and locate people where are they going to go? For Hurricane Irma the County evacuated about 650,000 people and as the County continues to grow they may be putting more people in harm's way, increasing the shelter demand and evacuation clearance times.

Our second speaker, Robert Molleda from the National Weather Service Miami provided a recap of Hurricane Irma. As we all know we really dodged a bullet with this storm. One that was not a direct impact on Miami-Dade and two that the back side of the storm was much weaker and did not produce as much rain as is typical. We could have had twice the amount of rain if the storm had been stronger on the backside. Locally South Florida had hurricane force gusts and additional work is being done to determine if sustained one minute hurricane force winds were a factor. The images of the trajectory of cone from 3 days before to 2 days before illustrates how critical monitoring and planning is. If this had been the other way around and projected to come into the Keys and then veered more to the north then the center could have been us.



The big picture that goes beyond the trajectory of the cone is the overall size of the storm and the wind fields. This next graphic illustrates how the entire state was experiencing the winds. Even though the eye of the storm was 90 miles away we had frequent gusts of hurricane force winds (as high as 100 mph) in SE Florida.

The NWS Miami was an amazing partner to MD OEM, between on-call and in-person presence. For the first time ever we had a NWS Miami forecaster here in our EOC during the lockdown. Their guidance and input on the threats and hazards helped us make decisions about where to evacuate. NWS Miami provided more than 200 media interviews and gained over 30,000 Twitter followers in less than one week.



Our last speaker was Colton Bowles from the U.S. Army Corps of Engineers who spoke about assistance programs they have available through their General Investigation and Continuing Authorities Program (CAP). Mr. Bowles provided an overview and handouts on each program that were sent out on December 13<sup>th</sup>. Below is a list of the programs that Colton spoke about.

<b>CORPS AUTHORITIES</b>	
<b>Authority</b>	<b>Project Purpose</b>
Section 14	Emergency Streambank and Shore Line Protection for Public Facilities
Section 22	Planning Assistance to States
Section 103	Protection of Properties (public and private) Against Storm Damages
Section 107	Improvements to Navigation
Section 111	Mitigation of Damages from Federal Navigation Project
Section 204	Regional Sediment Management
Section 205	Flood Damage Reduction
Section 206	Aquatic Ecosystem Restoration
Section 208	Channel Clearing and Excavation
Section 1135	Modification to Existing Corps Projects
Section 7001	Future Water Resource Projects

The USACE has over 36,000 engineers with expertise in a tremendous amount of areas so they are a great contact to see if they can help with a study or a project. The Corps can pay up to \$100K for a feasibility study and then beyond that it is a 50-50 split.

To initiate projects a letter is sent to the District Engineer to request assistance. A template was made available as well. The contact here in Florida if you have questions is Dave Apple at 904.232.1757 or [david.p.apple@usace.army.mil](mailto:david.p.apple@usace.army.mil).

The meeting was concluded and the next meeting will be on March 21<sup>st</sup> as a webinar at 9:30 am. <https://register.gotowebinar.com/register/4786897981911801603>

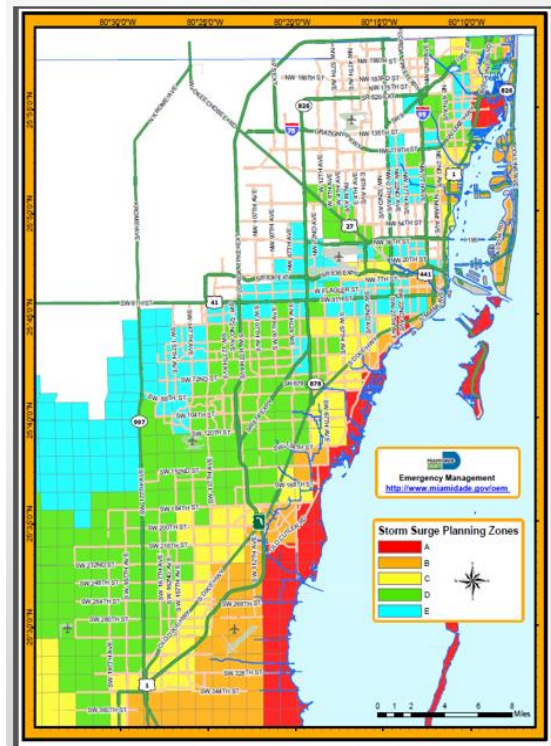
## 2018 Meeting Minutes

### March 21, 2018 Meeting

A total of 80 people representing 46 different agencies participating on this webinar.

#### Announcements

- OEM is currently at the Youth Fair (3/15-4/8) providing hurricane preparedness information.
- On Saturday April 21<sup>st</sup> OEM will have a call down for the Emergency Evacuation Assistance Program so volunteers are needed, if anyone is interested please email Roberto Cepeda at [Roberto.Cepeda@miamidade.gov](mailto:Roberto.Cepeda@miamidade.gov) or 305-468-5419.
- They have several exercises coming up:
  - April 5, 2018 a Post Disaster Housing Exercise that will focus on housing issues and will also have a flooding component. Anyone interested in attending can contact Sherry Capers [Sherry.Capers@miamidade.gov](mailto:Sherry.Capers@miamidade.gov) or 305-468-5452.
  - May 2, 2018 will be our annual Hurricane Exercise with the State. Invitations for this should be coming out shortly. CRS communities that are also Divisional EOCs can also participate in this for credit.
- OEM spoke about Community Outreach and the importance of ensuring that everyone is providing consistent information.
  - The updated Storm Surge Planning Zone Map is available this year.
  - OEM is currently working on the 2018 brochure. It will be larger in size than the mail out last year and will include 2 pages for Spanish and Haitian Creole. This will get mailed out to 1 million households in Miami-Dade so an increase from last year.
  - It is important that OEM helps ensure people understand the difference between FEMA Flood Zones and Storm Surge Planning Zones.
- OEM is working with ITD to create an app to have real time information for people to try to help direct them to look at one place to get the correct information specific to the hurricane.





## HMGP Update

Next in the meeting the LMS members discussed the drop in the estimation of how much HMGP monies would be available. Overall the State and Miami-Dade saw about a 50% drop.

	State	Miami-Dade
90-day estimate	\$929,880,399	\$168,980,208.39
6-month estimate	\$354,066,081	\$64,341,780.10

The Steering Committee will be meeting on March 23<sup>rd</sup> to discuss what changes if any they should make to the list. Some LMS Working Group members had suggestions that the Steering Committee will discuss.

Sandy Bridges from FEMA was on the webinar as well and talked about ways to look for the match including looking to the Private Public Partnership. Were there any businesses in your jurisdiction that were impacted as well? Might they want to help cover the match for projects that will benefit them as well? The State is looking to help expedite the Environmental and Historical reviews by working closely with FEMA.

Ms. Bridges also mentioned the Increased Cost Compliance Coverage and provided a Fact Sheet. This can provide up to an additional \$30,000 the help flood insurance policy holders cover the cost of mitigation measures that will reduce flood risk.

**Jump start**  
How to get early environmental reviews for certain project types.

Are you wanting to submit applications for the following project types:

- Acquisition/Demolition
- Acquisition/Relocation
- Elevation
- Mitigation Reconstruction

Are you a declared county looking to submit for Hazard Mitigation Grant Program funding?

Would you like to get an early start on the environmental and historic preservation (EHP) review?

If you answered, "yes," to all, then we would like to help.

Even before the Notice of Funding Availability is published, those eligible applicants seeking funding for the above listed project types can get a preliminary EHP review. This is a great way to get a jump start on the review process for those projects you know you will be submitting.

What we need to get started:

- A [notice of voluntary interest](#)<sup>1</sup>
- Neighborhood or geographic area of the project site(s)
- The type and scope of project being submitted
- Addresses (if available)

Additional info helpful for Acquisition-Demolition/Elevation reviews:

- Documentation of the year(s) of original construction, and any additions/modifications to existing structure.
- Plans of proposed excavations or other ground disturbing activities.
- Photos of structure (all sides).
- Copies of any available plans for existing structure, as well as documentation of any changes made since original construction.

Check out [The Florida GreenBook](#).

Got questions?  
Call our Mitigation Hotline (850) 815-4524  
Visit [FDEM Mitigation](#)

<sup>1</sup> [www.floridagreenbook.org/mitigation/hazard](http://www.floridagreenbook.org/mitigation/hazard)  
<sup>2</sup> [www.floridagreenbook.org/recovery/documents/FLGreenbook.pdf](http://www.floridagreenbook.org/recovery/documents/FLGreenbook.pdf)

## Community Development Block Grants (CDBG)

The State will also be receiving \$616 M in CDBG monies from Hurricane Irma. They met with stakeholders from Miami-Dade to discuss unmet needs and areas to be considered for an action plan for utilizing this money. I have attached the power point they provided to us to the email. But here are few highlights:

- Flexible fund to address community needs that remain after other funding has been exhausted.

- Must primarily address housing unmet needs but can also be used for unmet economic revitalization and infrastructure needs that impact housing and economic revitalization.
- Can be used as a match for other Federal funding.
- Must meet of HUD's 3 National Objectives.
  - Benefit persons of low-moderate income (70% of funding for LMI).
  - Aid in prevention or elimination of slums or blight.
  - Meet other urgent community development needs because of serious or immediate threat.

The draft of the Action Plan will be on the Department of Economic Opportunity website in April – with a comment period of 14 days. Then in May they will submit the plan to HUD for approval.

### **Priority Power Restoration**

Steve Detwiler presented on our work with FPL for the priority restoration of critical facilities. FPL allows us to select 20% of the feeders for priority restoration. We are currently over the 20 % and will be revisiting what is on the list. It is important for everyone to understand that being on the list does not guarantee your power will be restored quickly. It depends on the magnitude of the damages. Therefore, everyone should ensure they have the following in place:

- Continuity of Operations Plans that identifies your mission essential functions and alternate facilities where you can conduct them if site A is not available.
- Redundant power sources that may include back up generation or dual feeders from FPL.
- Transfer switches so you can switch over to generator power.
- Generator/Electrician contracts that you can activate if needed.

Mr. Detwiler will be working with our partners to help identify the Critical Infrastructure Facilities and Infrastructure Facilities (CIF and IF) in our community.

You can see more information in the LMS presentation slides. You can contact Steve Detwiler at [SteveD@miamidade.gov](mailto:SteveD@miamidade.gov) or 305-468-5423 for more information.

- ▶ **Critical Infrastructure Function (CIF):** These are facilities that have a direct effect on public health, safety, welfare and/or security for the county. These are the first priority (Tier 1) when FPL is restoring power to critical facilities. These facilities encompass the 20% of the feeders in the county.
- ▶ **Infrastructure Function (IF):** These are facilities that have an indirect effect on either public health, safety, welfare and/or security for the county. These are the second priority (Tier 2) for FPL when restoring power.

### **Next Meeting**

The meeting concluded and the next meeting will be on June 20, at 9:30 AM.

**June 20, 2018 Meeting**

This meeting was attended by 53 people representing 37 different agencies. The meeting was hosted by the City of Coral Gables.

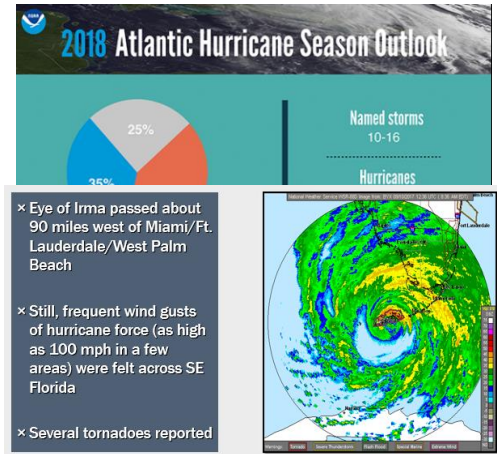
**Announcements**

- Curt Sommerhoff the Director of Miami-Dade Emergency Management has moved on to be the EM Director for Florida State University. Frank Rollason is the new Director. Mr. Rollason has many years of experience with the City of Miami working on response and recovery measures and as the City Manager for both Miami and North Bay Village.
- The next quarterly Whole Community Engagement Meeting will be on June 26<sup>th</sup> from 1:30 – 3:30 pm at the MDFR Training Auditorium at 9300 NW 41 Street in Doral. Topics will cover:
  - Welcome from the Miami-Dade Office of Emergency Management Director Frank Rollason
  - AT&T Disaster Response Strategies and Resources.
  - Debris Clearance Agreements for Municipalities.
  - County Shelter Operations Updates.
  - 2018 Hurricane Season Outlook.
- A Flood Hazards: Science and Preparedness class will be offered on July 12<sup>th</sup> from 8:30 – 4:30 pm at the MDFR Training location. To register go [here](#).
- On June 1<sup>st</sup> OEM hosted a Mosquito Abatement meeting, below are the highlights:
  - The County's Mosquito Control Division has increased their staffing to 26 inspectors, 4 supervisors, and 2 officers for code enforcement.
  - The County's code is [Chapter 26A-2.1](#) Prohibition of Nuisance. This ordinance is to reduce mosquito breeding areas in the county by allowing for fines and costs of abatement to be leveraged.
  - The County does active surveillance and when 10 or more female mosquitoes (the biters) are found they will actively do abatement. They will notify municipalities if they are doing any active measures in your community.
  - Outreach materials including door hangers and posters are available by contacting Michael Mut at 305-310-1451 or [Michael.Mut@miamidade.gov](mailto:Michael.Mut@miamidade.gov)
  - Construction sites are an area of particular concern and areas to watch for are ponding of water, buckets, hard hats, cups or any receptacle that can hold water, including jersey barriers and Roll-off containers for construction debris.
- Hurricane Season is almost here and OEM has Hurricane Brochures in English, Spanish and Haitian Creole. If LMS members need copies for their offices or outreach events please let Steve Detwiler know ([steve.detwiler@miamidade.gov](mailto:steve.detwiler@miamidade.gov)).
- Miami-Dade County has the [ReadyMDC app](#), which will provide residents with preparedness information and real time information including which areas are in the Evacuation Order, which Evacuation Centers are open and which Hurricane Bus Pick up points are activated.

## 2018 Hurricane Season Update

Arlena Moses from National Weather Service - Miami gave a presentation on hurricanes terms and tools. Here are some of the highlights:

- Though predictions are made for how many named storms and major storms there may be for the season, remember that is not an indication of land falling events. In 1992, the first named storm for the season was Andrew.
- The “cone” is a good tool to help residents see if a storm is headed their way, but only focuses on the where the center of the storm will be. It is not an indicator of how far out the impacts may be felt. Irma was 90 miles away and the County still had gusts of over 100 mph and areas that saw up to 6 feet of storm surge.
- NWS issues plain language text products for storms on a routine basis for a named or numbered storm.
- Main Advisories are issued at 5am/pm and 11 am/pm. And Intermediate Advisories will be issued at 2 am/pm and 8 am/pm.
- Once a storm gets closer to Miami-Dade County residents should monitor the local NWS so they are abreast on the timing and specific impacts for the area.  
<https://www.weather.gov/srh/tropical>



## Community Development Block Grants-Disaster Recovery (CDBG-DR)

The State will also be receiving approximately \$1.3 Billion in CDBG monies from Hurricane Irma. The State has developed a Draft Action Plan that is available [here](#) .

Below is an overview of this program:

- Flexible fund to address community needs that remain after other funding has been exhausted.
- Must primarily address housing unmet needs but can also be used for unmet economic revitalization and infrastructure needs that impact housing and economic revitalization.
- Can be used as a match for other Federal funding.
- Must meet of HUD’s 3 National Objectives:
  - Benefit persons of low-moderate income (70% of funding for LMI).
  - Aid in prevention or elimination of slums or blight.
  - Meet other urgent community development needs because of serious or immediate threat.

The next step is for the State to enter into an agreement with HUD.

**HMGP Update**

Next in the meeting the LMS members discussed the status of the Hazard Mitigation Grant Program.

- The LMS Chair submitted the final list to the State on May 22<sup>nd</sup>.
- Endorsement letters were sent to the potential applicants on May 23<sup>rd</sup>.
- We submitted 96 projects for a total of \$410,195,987 (Federal share of \$315,099,431).
- Reminder applications are due to the State on August 6<sup>th</sup> 5:00 pm.
- If LMS members have received an endorsement letter they should do the following:
  - Ensure the name of the project is correct
  - If the amount they are asking for (Federal share) drops, please notify Cathie Perkins. This impacts all projects after yours.
  - Get the environmental and historic preservation reviews completed as soon as possible.

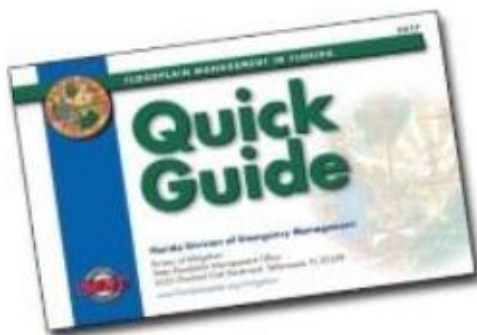
**Steering Committee Members – Open for new nominations**

Thank you to the Steering Committee members that helped with working on the priority list for the HMGP grant. Some of the Steering Committee members have stepped down there is an opportunity for others to become committee members. OEM is looking for a broad base of experience and backgrounds to help represent the diverse mitigation work the County undertakes.

**Flood Resources on the State Website**

The State of Florida has some resources that may be of benefit to explain flooding to the public and one that looks at Post-Disaster assessment and services. There is an app that the State has created to track high water marks, you will need an ArcGIS online account that is publicly visible and permission granted from the State. More details are available at:

<https://www.floridadisaster.org/dem/mitigation/flood-plain/community-resources>





### #HurricaneStrong Designation

Miami-Dade was designated as a # HurricaneStrong community, the second County in the nation. This designation was bestowed upon the County by the Florida Alliance for Safe Homes (FLASH) and is part of the National Hurricane Resilience Initiative that focuses on improved hurricane preparedness, mitigation, and overall readiness through increased public awareness and engagement.

### Next Meeting

The next meeting will be a webinar on September 19<sup>th</sup> at 9:30 AM.

<https://attendee.gotowebinar.com/register/8893667374192809985>



### Local Mitigation Strategy



# Hurricane Strong



**September 19, 2018 Meeting**

This meeting was attended by 69 people representing 42 different agencies.

**Announcements**

- The next quarterly Whole Community Engagement Meeting will be on September 25<sup>th</sup> from 9:30 – 11:30 am at the MDFR Training Auditorium at 9300 NW 41 Street in Doral. Topics will cover:
  - Welcome from the Miami-Dade Office of Emergency Management Director Frank Rollason.
  - Publix Supermarket Restoration Operations.
  - Terrorism Prevention and Crisis Management.
  - MD Communities Organized to Respond in Emergencies (CORE).
  - 2018 Hurricane Season Outlook Update.
- The 10<sup>th</sup> Annual Southeast Florida Regional Compact Climate Change Summit will be held in Miami- Beach October 24 & 25<sup>th</sup> you can register [here](#).
- Resilient Energy Systems Workshop will be held on September 27 & 28<sup>th</sup> at UM you can register [here](#).

**Recovery Support Function (RSF) Mitigation**

Phil Myer from Tetra Tech led a discussion on the importance of us updating our RSF Mitigation Plan. RSF Mitigation will be implemented when there is the transition from response to recovery and begin identifying mitigation projects. This will essentially be the Local Mitigation Strategy Working Group implementing projects that had been previously identified or newly identified from the event. The discussion focused on a few key items:

- What are the strengths and challenges of the LMS/RSF Mitigation?
- Other partners that should be involved?

**Community Development Block Grants (CDBG)**

The State is getting ready to launch the first component of the CDBG monies for homeowners who had damages that they have not been able to repair. On Tuesday September 25<sup>th</sup> at 11:30 at 7900 NW 27<sup>th</sup> Ave, Suite 200 there will be a launch of the Rebuild Florida center for Miami. There will also be mobile sites and other locations where homeowners can apply for assistance to repair or rebuild their homes.

OEM was also contacted by DEO to provide them with a list of unmet infrastructure needs related to Irma. DEO was seeking information pertaining to infrastructure that was:

1. Infrastructure damaged by Hurricane Irma.
2. Infrastructure in an area impacted by Hurricane Irma and will mitigate future damage.
3. Improvements to existing infrastructure that contributed to Hurricane Irma damage (e.g. Stormwater/wastewater systems that overflowed).

### **HMGP Update**

Next was discussed the status of the Hazard Mitigation Grant Program.

- OEM submitted the list to the State of the priority projects for HMGP and updated it again on September 20<sup>th</sup>.
- Applicants should receive an email from the State if additional information is needed. If LMS members require an updated letter due to changes in dollar amounts, please let Ms. Perkins know so she can assist.
- OEM is still waiting on the 12-month lock-in amount.

### **Steering Committee Members – Open for new nominations**

OEM will be sending out an interest form for the Steering Committee nominations.

### **A Fond Farewell**

The final item on the agenda was to let everyone know that Ms. Perkins will be leaving Miami-Dade County effective October 12<sup>th</sup>. She will be the next Emergency Management Director for Pinellas County.

As of now Ms. Perkins will transition the program to Steve Detwiler as lead and Yahiritza Alvarez as support. Both have been an integral part of the LMS for years now and she has full confidence that they will continue to assist the LMS members until a permanent replacement has been found.

### **Next Meeting**

The next meeting will be on December 12, 2018, **at** 9:30 AM at a location to be determined.

## December 12, 2018 Meeting

### Introductions

Steve Detwiler opened the meeting and welcomed everyone.

### Hurricane Irma Hazard Mitigation Grant Program

Jared Jaworski provided an update on Hurricane Irma's Hazard Mitigation Grant Program (HMGP). Mr. Jaworski reported the State is on track for processing HMGP applications. The only time an applicant should be hearing from the State is if they need additional information.

Florida counties are encouraged to apply for Hurricane Michael Tier 3 HMGP funds. No deadline to apply has been established yet, but Steve Detwiler will put together guidance and send it out to the Miami-Dade County members.

### U.S. Army Corps of Engineers Back Bay Study

Katie Hagerman with the Miami-Dade County Office of Resilience gave an overview of this project. This study is being conducted by the U.S. Army Corps of Engineers Norfolk District. This study will be conducted over the next three years and include all of Miami-Dade County with the exception of the barrier islands. Public comments are still being accepted until January 9<sup>th</sup>. If anyone feels they need to be included in this study please let Steve Detwiler know.


The Resilience Office is also planning a sea level rise study which will start in the near future. Details on this study will be forthcoming.

### AIA Resiliency Recovery Task Force

Elizabeth Camargo is with the American Institute of Architects and provided a brief talk on their new Recovery Task Force. They have several members trained in Miami-Dade County that can assist in augmenting damage assessment teams. OEM will be meeting with her early in 2019 on how best to integrate their group with the county and the municipalities.

### Rebuild Florida

Mr. Detwiler provided a short presentation on this program. The deadline to apply for assistance is December 23<sup>rd</sup>. They have a mobile location and a mobile registration center in the county this week. If anyone needs additional information on this program please contact Steve Detwiler.



**REBUILD FLORIDA:**  
THE STEPS TO REPAIR, REBUILD  
OR REPLACE YOUR HOME

[RebuildFlorida.gov](http://RebuildFlorida.gov)

844.833.1010

Rebuild Florida is a program of the Florida Department of Economic Opportunity. To those Florida homeowners who were impacted by Hurricane Irma, we know your road to recovery has been long and difficult. Our team is here to help eligible Floridians repair, rebuild or replace your home. While every need is different, here are the steps Rebuild Florida will include.

1

REGISTRATION

Registration will take 15-30 minutes, and no documentation is required. It can be completed online at [RebuildFlorida.gov](http://RebuildFlorida.gov) or by calling 844.833.1010. Assistance is also provided at any of our Rebuild Florida Centers.

**Notification:** After you register, you will receive an email or letter confirming your registration is complete.

2

APPLICATION

Eligible homeowners will be invited by priority to complete the application. The application can be completed online, over the phone or by scheduling an appointment at one of our Rebuild Florida Centers where a case manager will be available to assist you.

**Notification:** After you apply, you will receive an email or letter confirming your application is complete.

3

ELIGIBILITY

Our program team will review applications and supporting documentation to verify that homeowners meet all of the eligibility requirements for the program. Priorities will include low-income Florida families who are elderly, disabled, families with children 5 or younger or tenants displaced from Puerto Rico or the U.S. Virgin Islands who are permanently resettling in Florida.

**Notification:** You will only be contacted by a case manager if additional information is needed.

4

HOME DAMAGE ASSESSMENT

During this scheduled appointment, inspectors will inspect work already completed and determine the remaining repairs needed to complete the home. Our team will also send inspectors to test for lead-based paint in homes constructed prior to 1978.

**Notification:** You will be contacted by phone to schedule your appointment.

5

ENVIRONMENTAL REVIEW

This federally required environmental review is the process of reviewing a project and its potential environmental impact to determine whether it meets federal, state and local environmental standards. This review is conducted without an appointment on the property surrounding the home.

**Notification:** You will only be contacted if the program team is unable to locate or access the property.

6

AWARD DETERMINATION

The program will use a formula to calculate the awarded amount. Award amounts may be reduced if benefits were received from insurance or other federal recovery resources.

**Notification:** You will receive an email or phone call once the award determination is available.

7

GRANT AGREEMENT


Once these steps are complete, an eligible homeowner will meet with our team to review and accept the award and sign the grant agreement. The grant agreement will be available online, and applicants may request to speak to a case manager, then accept or appeal the award funding.

**Notification:** You will receive a call or email with information regarding your grant agreement.

8

REPAIR, REBUILD OR REPLACEMENT

Once the grant agreement is complete, eligible homeowners will enter into a construction contract with a program-selected building contractor. The repair, rebuild or replacement will begin. The program will pay the contractor directly for eligible repairs.




**Other Matters**

Kristen Martin was introduced to the LMS group. Ms. Martin is an FIU intern with OEM and will be focusing on mitigation and resilience projects.

We will begin the Local Mitigation Strategy which is due in 2020 in January. Moving forward the working group will receive more information on this process and may be solicited for information.

There are two recovery engagement sessions occurring next week, they include:

- Session #1 (Federal Reimbursement) is on Dec 18th at 9-11am: POC is Steve Detwiler
- Session #2 (Community Based Organizations involvement in Recovery) is on Dec 19<sup>th</sup> at 9-11am. They can register at: <https://form.jotform.com/Ptmyer/engagementsession2registration>

**Next Meeting**

The meeting was concluded, and the next meeting will be on February 14, 2019.



## **2019 Meeting Minutes**

### **February 14, 2019 Steering Committee Meeting**

This meeting addressed how projects would be prioritized for Tier 3 HMGP money from Hurricane Michael.

- There has been no Notice of Funding Opportunity or deadline to apply announced from the State yet
- Prioritized list of projects that were submitted under Hurricane Irma was recommended to be used to submit projects for Tier 3 under Hurricane Michael

A motion was made for the following:

Hurricane Michael Tier 3 HMGP money will be prioritized by the following criteria:

- Priority level 1: Projects that already applied for Hurricane Irma HMGP and they are on the Hurricane Irma project priority list (these projects can make slight adjustments to projects as needed)
- Priority level 2: New projects that did not apply for Hurricane Irma HMGP, but they must meet all other LMS requirements
- Priority level 3: Projects that did not apply for Hurricane Irma HMGP, but they are on the Hurricane Irma priority list

A motion made by Natalie French from City of Doral, seconded by Armando Vilaboy from SFWMD. All other members present were in agreement to pass the motion.

Yahiritza Alvarez, OEM EM Planner, recommended that at least one project from each municipality be included on this new priority list

Additional matters discussed include:

- Hugh Gladwin will be retiring from FIU this summer, but requested to stay on the LMS Steering Committee as a private citizen
  - Steering Committee unanimously agreed

Meeting was adjourned at 11:00am.

## **March 14, 2019 Quarterly Meeting**

### **Steering Committee Updates**

- Steve Detwiler gave an update on the Hazard Mitigation Grant Program (HMGP) for Hurricane Irma and Michael.
- Irma HMGP projects are being reviewed at this time, the State will communicate directly with the applicants.
- OEM is awaiting more information on Michael HMGP program.

### **Vizcaya Museum and Gardens HMGP Project Updates**

- Ana Rico gave an update on their HMGP project.
- Vizcaya suffered major damage from Irma to include damage to the island and the pool.
- Their HMGP project includes enhancing the main house electrical system, replacing the roof and windows and doors.

### **Sea Level Rise Project Update**

- Katie Hagemann provided an update on this project from the Miami-Dade Office of Resilience.
- Ms. Hagemann provided a history on Miami-Dade past efforts to control the region's water system.
- This project addresses how rising sea levels will impact critical infrastructure, housing, and transportation systems.
- The project is also examining how the County and region can adapt to these issues. Some of these projects include restoring natural reefs, protecting existing beaches and dunes, rebuilding seawalls and what areas of the county should we build on and which areas should be limit future development.

### **2020 Update of the LMS**

- Steve Detwiler reported that OEM is working on the 5-year update of the LMS. OEM would be reaching out to the partners in the near future soliciting comments and reviews of the revised plan.

**June 19, 2019 Quarterly Meeting**

Steve Detwiler reported that FEMA is revising the Pre-Disaster Mitigation Program. To accomplish this they are seeking input via a series of webinars. The next two webinars are:

- June 20: Funding and Resource Management and Benefit-Cost Analysis
- June 25: Building Codes and Enforcement and Capacity and Capability

**2019 Hurricane Forecast**

- The 2019 forecast was provided by Anthony Reynes with the National Weather Service, Miami Office.

**Hurricane Michael HMGP Update**

- FEMA has not issued the Notice of Funding Availability (NOFA) for Hurricane Michael. This is due to the changes in HMGP from the Disaster Recovery Reform Act and FEMA Policy #104-11-1 which required changes in cost rates.
- The State received the initial funding estimates for HMGP in April 2019, they are still breaking these down in terms of what will be available to applicants.

**Florida International University Wall of Wind**

- Erik Salina provided a presentation on the Institute International Hurricane Research Center and the Wall of Wind.
- The Wall of Wind officially began in 1996 with only two fans. It has expanded to include 12-fans.
- Mr. Salina also presented on the previous work of the center and their findings. This include the impact of wind on message signs and rooftops.
- Following the meeting Mr. Salina provided a tour of the Wall of Wind.

**MacTown**

- Robert Ruano provided a presentation on this organization that has been in operation since 1962 and provides services to adults with autism and developmental disabilities.
- This organization is licensed by the State and has a 56 bed main facility and five group homes.
- One third of their clients are over 60 years old and have lived in the main facility or group homes most of their lives.
- During Hurricane Irma the main facility was left without power affecting 140 people. The facility was without power for five days.
- The organization submitted a project for Irma HMGP funding to buy a new generator and transfer switch. The total cost of the project is \$300,000.

**Hurricane Irma HMGP Updates**

- Mr. Detwiler provided an update on the projects submitted for HMGP funding.
- The State has begun the process of the final obligation of HMGP projects for Irma.

- He also asked that everyone update the WebEOC LMS Board with the current status of their projects.

#### Tiger Dam System

- Ms. Cheryl Witmer with the US Flood Control Corporation provided a presentation and demonstration of the Tiger Dam System.
- The tiger dam was originally invented for snow melt and river flooding. US Flood Control was started in 2004 and began manufacturing the tiger dam in 2006.
- There are tiger dams currently being used in seven counties around the world.
- The system is a system that can be used to prevent flooding at critical facilities.
- The piping comes in a standard of 50 feet and is made of Nylon Scrim coated with a flexible PVC. This piping includes interlocking sections that can join together seamlessly and is stackable in a triangle configuration.
- There is no need for heavy equipment to deploy the system and it requires minimal manpower to deploy it.

**October 10, 2019 Meeting**

This webinar was attended by 73 people representing 42 different agencies.

**Introductions**

Steve Detwiler opened the meeting and welcomed everyone. Mr. Detwiler introduced Mitch Graham as the new Whole Community Mitigation Planner. Mr. Graham provided his background experience as a hazard mitigation planner for the State of Michigan government for 11 years.

**Rebuild Florida Mitigation Grants**

Steve Detwiler discussed how Rebuild Florida is managed by the Florida Department of Economic Opportunity and is managing the Community Development Block Grant-Disaster Recovery (CDBG-DR). The U.S. Department of Housing and Urban Development in April 2018 allocated an additional \$633,485,000 for mitigation activities. Mr. Detwiler announced the Florida DEO had reached out to the County to host a workshop on this program and what will be eligible projects. Further details are forthcoming.

Mr. Detwiler also announced today at 3pm the U.S. Department of Housing and Urban Development will host a webinar on conducting a Mitigation Needs Assessment for the CDBG-MIT grant.

The February 2019 Steering Committee meeting established the priority levels for Michael projects, which are:

- Priority level 1: Projects that already applied for Hurricane Irma HMGP and they are on the Hurricane Irma project priority list.
- Priority level 2: New projects that did not apply for Hurricane Irma HMGP, but they must meet all other LMS requirements.
- Priority level 3: Projects that did not apply for Hurricane Irma HMGP, but they are on the Hurricane Irma priority list.

**Pre-Disaster Mitigation Grant Program**

Steve Detwiler discussed that the Pre-Disaster Mitigation Grant Program is available annually and allows jurisdictions to plan for and implement sustainable cost-saving measures designed to reduce risk to individuals and property from natural hazards. Each State is allocated \$575,000 for potential projects. The number of projected projects that will receive funding nationwide is 350. This grant program is now available to all Florida counties, the application period opened on Monday, September 30. The deadline to apply for this grant is Tuesday, November 12<sup>th</sup>. The grant program also added resilient infrastructure projects.

Mr. Detwiler also announced that FEMA has a webinar scheduled discussing pre-disaster mitigation grant application errors and how to avoid them on October 15<sup>th</sup> at 2pm.

**Flood Mitigation Assistance Grant Program**

Steve Detwiler discussed that the Flood Mitigation Assistance (FMA) Program's goal is to reduce or eliminate the risk of repetitive flood damage to buildings and structures insured under the National Flood Insurance Program (NFIP). In Fiscal Year (FY) 2019, the FMA



Program will prioritize proposals that address community flood risk by setting aside \$70 million for this purpose. The remaining funding, at least \$90 million, will be used for FMA technical assistance, flood mitigation planning, and mitigation projects that reduce the risk of flooding to severe repetitive loss (SRL) and repetitive loss (RL) properties. A total of 120 projects will be funded nationwide. The application period is September 30<sup>th</sup> to November 12<sup>th</sup>, 2019.

Mr. Detwiler also mentioned that in order to receive a support letter, the project must be in the WebEOC LMS Board and had to be updated by the end of the day on October 4<sup>th</sup>.

**October 30, 2019 Steering Committee Meeting****Introduction**

Steve Detwiler serving as the Acting LMS Steering Committee Chair declared that a quorum with 11 steering committee members were present and the meeting could proceed. The principle purpose of this meeting is to decide on the final ranking strategy for Hurricane Michael HMGP projects.

**Overview of Hurricane Michael HMGP**

The Notice of Funding Availability (NOFA) was sent to Miami-Dade County on September 10<sup>th</sup> and the application period closes on March 10, 2020. Eligible applicants for this grant are State and local governments and private non-profit organizations. The following are eligible projects under this grant:

- Acquisition or relocation of hazard prone structures
- Retrofitting of existing buildings and facilities
- Elevation of flood-prone structures
- Infrastructure protection measures
- Stormwater management improvements
- Minor structure flood control
- Flood diversion and storage
- Aquifer storage and recovery
- Floodplain and stream restoration
- Safe Rooms
- Generators for critical facilities (must be part of a project that further strengthens the structure)

The funds allocated for this grant based on the 12-month lock in is \$302,586,535.

The February 2019 Steering Committee meeting established the priority levels for Michael projects, which are:

- Priority level 1: Projects that already applied for Hurricane Irma HMGP and they are on the Hurricane Irma project priority list (these projects can make slight adjusts to projects as needed)
- Priority level 2: New projects that did not apply for Hurricane Irma HMGP, but they must meet all other LMS requirements
- Priority level 3: Projects that did not apply for Hurricane Irma HMGP, but they are on the Hurricane Irma priority list

**Ranking Discussion**

The Steering Committee has determined the scoring priority of the priority levels 1-3 project list assembled by Steve Detwiler. The scoring will incorporate the following:

- Only 2 projects will be accepted from each of the municipal partners. The relevant municipality will be notified and given the choice of which projects will be included in the Michael HMGP priority list.
- The higher the BCR score the higher it will appear on the priority level 2 list.

- The projects in levels 1-3 cannot exceed 25% of the total allocated funding for HMGP. A project can exceed 25% if it is a multi-jurisdictional project involving multiple municipalities.
- Projects with a lower BCR score may be moved up higher in priority level 2 group to meet the latest estimates for HMGP funds from the State.

The committee unanimously passed this guidance and requested Mr. Detwiler implement it and work with the designated applicants.

### **Conclusion**

Mr. Detwiler will hold a webinar with the municipalities to advise them of how the Steering Committee will rank these projects. This webinar will be followed by a deadline to respond back with the prioritized projects. If a municipality or County department do not respond back their project will be removed from the project list for Michael HMGP.

The Steering Committee will meet again in December 2019 to approve the finalized list.

**December 4, 2019 Quarterly Meeting**

This meeting was held at Miami Lakes from 10am to Noon and had 51 people attended.

**Introductions**

Mitch Graham welcomed everyone and said this is his first LMS meeting.

**Annual Local Mitigation Strategy (LMS) Update**

Mitch Graham informed the attendees about the LMS schedule for the update process. Mr. Graham stressed that local governments must have a FEMA approved hazard mitigation plan in order to apply for and/or receive project grants administered by FEMA. Mitch Graham described the 7 components of the LMS, which are:

- Part 1: the Strategy
- Part 2: the Projects
- Part 3: Funding
- Part 4: Appendices
- Part 5: Meeting Notes
- Part 6: Completed Projects
- Part 7: Flooding – the NFIP (National Flood Insurance Program) and CRS (Community rating system)

Mr. Graham discussed the municipal participation active participation eligibility process. The public review and comment, and the project submittal and tracking process were also discussed.

Mitch Graham explained the LMS Web EOC Project Board. He also described the LMS letter of support process. A mention of the Municipal Integration of Mitigation Measures was mentioned with providing an example.

Next, Mr. Graham discussed the hazard analysis about the natural hazards already included in the LMS. He talked about natural hazards that were under consideration but not included in the LMS. Also, he brought up technological and human caused hazards that are under consideration.

Finally, to close out the LMS update presentation, Mr. Graham reminded the attendees to attend at least 2 of the 4 LMS Quarterly meetings per calendar year to be continuing participants. He also reminded them to update their LMS projects on the WebEOC LMS project board and to have open lines of communication because working with partners make this work out well.

**Integrated Solutions Consulting (ISC)**

Bob Stewart the Program Manager for Integrated Solutions Consulting provided a Power-Point presentation about ISC's services related to hazard mitigation that they provide to clients. Mr. Stewart also discussed planning and post-disaster mitigation services.

## Our Services and Clients



## Planning and Post-Disaster Mitigation Services



Mr. Stewart discussed the difference between good mitigation and bad mitigation. He also discussed the importance of compliance and disaster recovery. To conclude Mr. Stewart's presentation he talked about the overall importance of hazard mitigation.

### The Hurricane Response HUB Initiative

Alicia Horner, the Health and Medical Coordinator for the Miami-Dade Office of Emergency Management gave a presentation of the Florida Hurricane Response HUB Initiative. Ms. Horner discussed the Core Team and the Technical Advisory Committee members. The four components and four central themes of the Florida Hurricane Response Hub include:

#### Florida Hurricane Response Hub:

**4 Components**  
and  
**4 Central Themes**



**TECHNICAL ASSISTANCE**

**TRAININGS**

**COMMUNICATION**

**SUSTAINABILITY**

**INTERDISCIPLINARY COORDINATION**

**MENTAL HEALTH**

**CLIMATE CHANGE RESILIENCE**

**GROUPS IMPACTED BY INEQUITY**



Alicia Horner also explained that the themes have matured into 3 priority areas:

1. Groups impacted by inequity and climate gentrification.
2. Non-acute healthcare agencies and emergency response plan requirements.
3. Mental health capacity building through interdisciplinary coordination.

Information about the Florida Hurricane Response Hub:

- Funded in January 2019 for an 18-month funding period.
- Headquartered at the Florida Institute for Health Innovation.
- Purpose is to lead public health work force capacity building activities in disaster related surveillance, environmental, and occupational health needs.

Partners include a wide array of academic, governmental, and community-based organizations:



The Safety Function Action:

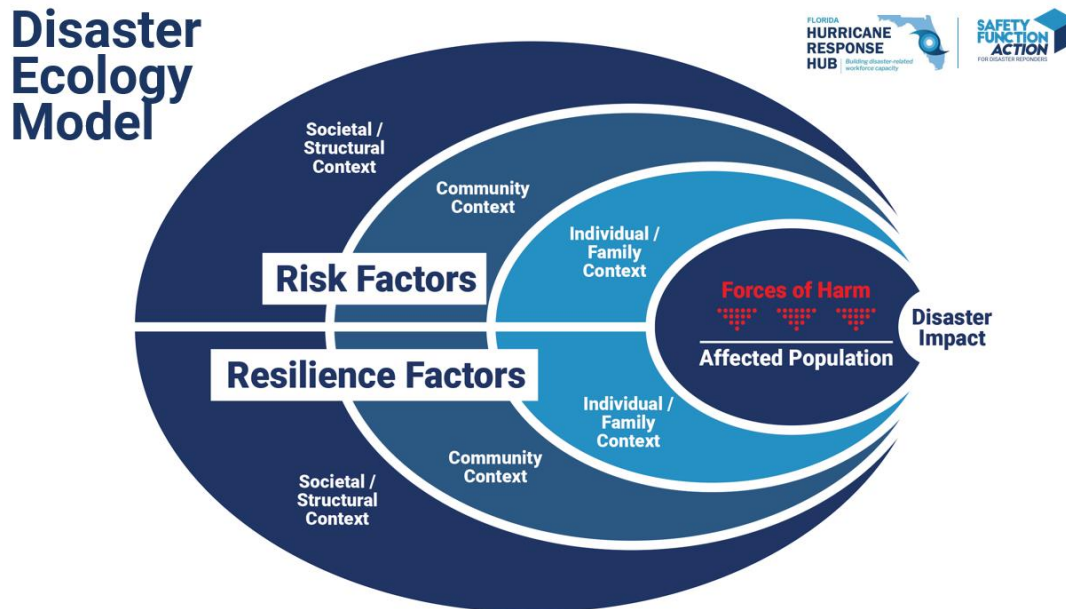
#### 3 Keys to Disaster Health



#### 6 Strategies



Ms. Horner explained the Disaster Ecology Model:



Alicia Horner also stressed that when disaster strikes, persons from all ranks apply the strategies, objectives, and tactics of the Safety Function Action.

Technical assistance requests were mentioned. They provide technical assistance to the workforce in Florida on:

- Disaster-related morbidity and mortality surveillance.
- Disaster-related environmental health.
- Occupational health.

Ms. Horner concluded her presentation by showing the NOAA Coastal Flood Exposure Mapper Demo. Then she asked the audience for any questions.

### **Hurricane Michael HMGP Priority List**

Steve Detwiler the Emergency Management Planner and the current LMS Chair presented information about Hurricane Michael HMGP Guidance. Key information he presented included:

- The Notice of Funding Available was sent to Miami-Dade County on September 10<sup>th</sup>.
- The application period closes on March 10<sup>th</sup>, 2020.
- Eligible applicants for this grant are State and local governments and private non-profit organizations.

In February 2019 the LMS Steering Committee established the priority levels for Michael Projects, which are:

- Priority level 1: Projects that already applied for Hurricane Irma HMGP and they are on the Hurricane Irma project priority list.
- Priority level 2: New projects that did not apply for Hurricane Irma HMGP, but they must meet all other LMS requirements.
- Priority level 3: Projects that did not apply for Hurricane Irma HMGP, but they are on the Hurricane Irma priority list.

The Steering Committee met and established Michael scoring and ranking of priorities for Priority Level 1-3 Projects:

- Applicants must be an active participant in the LMS for 2018.
- The project is required to be updated annually in the LMS.
- Only 2 projects will be accepted for each of the municipal partners.
- For Level 2 projects the higher the BCR score the project has, it will be ranked higher.
- Projects with a lower BCR score may be moved up higher in priority level 2 group to meet the latest estimates for HMGP funds from the State.
- The projects in levels 1-3 cannot exceed 25% of the allocated funding for HMGP.

Mr. Detwiler explained that an email will be sent out to the appropriate LMS members requiring them to update their projects on the HMGP list according to the criteria mentioned in the paragraph above. LMS members will have until Monday, December 16<sup>th</sup> to respond to OEM. If they do not respond, their projects will be removed from consideration.

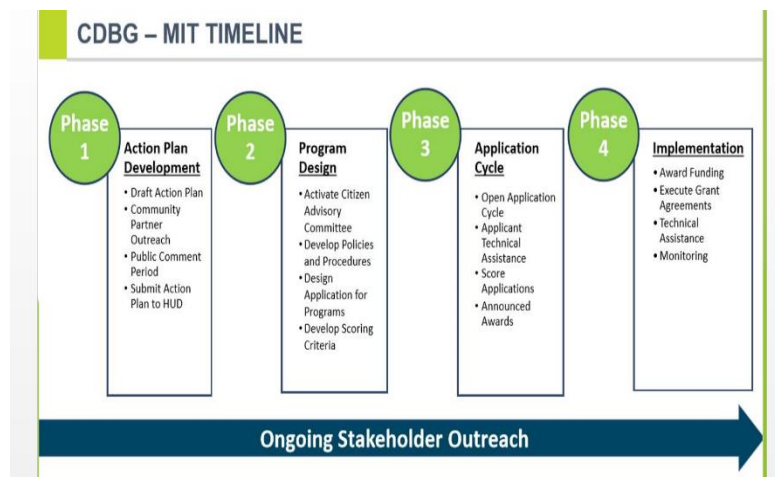
### Rebuild Florida Update

Steve Detwiler also presented about the Rebuild Florida Update. The overview of the Community Development Block Grant-Mitigation Program includes:

- Funds were originally announced in April 2018.
- Florida's allocation is \$633,485,000.
- CDBG-MIT State Action Plan is due to HUD on February 3<sup>rd</sup>, 2020.

CDBG-MIT Action Plan funding:

- At least 50% of funds must be spent on mitigation needs in HUD designated Most Impacted and Distressed (MID) areas which includes Miami-Dade County.
- All allocated funds must be spent within 12 years.
- Funds will likely be available in April 2020.



Mr. Detwiler explained that The Florida Department of Economic Opportunity (DEO) will lead the State's efforts to create the Action Plan:

- Provides a high-level strategy for how the funding will be used to address eligible communities' disaster mitigation needs.
- Will be developed in partnership with State and local partners involved in mitigation and resiliency efforts.
- The Action Plan is due to the Federal government on February 3<sup>rd</sup>, 2020.
- The State will include language regarding that the Local Mitigation Strategy should be involved in the process.

Steve Detwiler concluded his presentation by discussing the eligible and ineligible activities.

Eligible activities examples include:

- Regional investments in risk reduction from hazards to develop disaster resistant infrastructure.
- Water, sewer, solid waste, communications, energy, transportation, health and medical, and other public infrastructure to address specific identified risks.
- Multi-use infrastructure.
- Green or natural mitigation infrastructure development.
- This grant can be used as a match for Federal grant programs.
- Development of modernized and resilient building codes and land use plans.
- Integration of mitigation planning with other local and regional mitigation community development, land use and other plans.
- Upgrade mapping, data, and other capabilities to better understand evolving potential disaster risks.
- Eligible plans (master plans, historical preservation plans, community recovery plans, resilience plans, and neighborhood plans).

Ineligible activities examples include:

- Funding for buildings used for the general conduct of government.
- Forced mortgage payoff.
- Enlargement of dam or levee beyond original design.
- Assistance to private utilities.

**December 19, 2019 Steering Committee Meeting****Introduction**

Steve Detwiler began the meeting with only nine members in attendance which is not a quorum. In the interim Mr. Detwiler showed the members in attendance the ranking list for Hurricane Michael HMGP projects.

**Review of Ranking of HMGP Projects**

There was a total of eight municipalities that had more than two projects, they were:

- Homestead
- Miami Beach
- Miami
- North Bay Village
- North Miami
- Opa Locka
- Palmetto Bay
- West Miami

The Office of Emergency Management (OEM) received responses from Homestead, Miami Beach, North Bay Village, Opa Locka, Palmetto Bay and West Miami. Unfortunately, the projects selected for Homestead and North Bay Village were not updated in 2018 and have been removed from consideration. The Miami-Dade Water and Sewer Department (WASD) had one project that was \$80 million which exceeded the 25% cap on project. WASD informed OEM that they reduced the project cost to \$40 million.

The City of Miami had three projects but the point of contact never responded of which projects should be included in the Michael ranking list. However, Jane Gilbert informed the members present that one of the projects should have not been included because it was already being funded through Hurricane Irma HMGP. Mr. Detwiler was asked by the Steering Committee to send an email clarifying this and upon clarification to add the City of Miami projects back into the Hurricane Michael HMGP project list.

The Steering committee also directed Mr. Detwiler to send out the revised ranking list to all Steering Committee members and via email ask for the committee approval for the final list. This was passed unanimously by the committee members present.

**Conclusion**

Mr. Detwiler asked if any members had any new business they wanted to discuss. No one brought anything forward so the meeting was adjourned.



## **2020 Meeting Minutes**

### **February 18, 2020 Steering Committee Meeting**

#### **Introduction**

Mr. Steve Detwiler called the meeting to order via conference call at 2:40pm. The following members were present on the call:

- Tiffany Troxler
- Natalie French
- Jane Gilbert
- Samantha Nagy
- Erik Salna
- Nichole Hefty
- Rob Molleda
- Steve Detwiler- Committee Chair

The meeting does not have a quorum present.

#### **Status of Hurricane Michael HMGP Projects**

Mr. Detwiler provided an overview of the projects submitted to the Florida Division of Emergency Management (FDEM). Currently, a total of 14 Hazard Mitigation Grant Program (HMGP) applications are being submitted for Hurricane Michael HMGP from seven applicants who are:

- Miami-Dade County Library
- Miami-Dade Fire Rescue
- Miami-Dade Parks and Open Spaces
- Town of Sweetwater
- City of West Miami
- City of Miami Beach
- MacTown

These projects have a total cost of \$11,584,057. Miami-Dade originally submitted a total of 37 projects that were worth \$105,261,376.

### **Miami-Dade Office of Management and Budget (OMB) Proposal and Discussion**

#### **Background**

One of Public Library projects "South Dade Regional Library" was mistakenly added to the ranking list by Mr. Detwiler. The total cost of this project was \$812,748. There was a miscommunication regarding funding for this project. It is already being funded by Hurricane Irma HMGP. OMB is requesting that this project be replaced with another project that did not receive funding through Hurricane Irma HMGP. This project is the West Dade Regional Library Hardening Project. The total budget was \$983,542.

OMB specific proposals were:

1. Applicants should be allowed to replace a project already ranked on the Hurricane Michael HMGP Ranking list.
2. If an applicant doesn't notify OEM of the status of their project by a certain deadline that the project should be removed from consideration.

#### Steering Committee Discussion

Mr. Detwiler pooled the members individually to gather their input. Natalie French commented that the municipalities were only limited to two projects and it would be unfair for the County to add additional projects. Tiffany Troxler also commented that replacing a project with another project is not consistent with the ranking system the Steering Committee established when it ranked the projects. The other members all agreed with these statements. However, the committee asked Mr. Detwiler to poll the members not present to see if they have any differing positions.

#### **Conclusion**

Based on the fact that the members present were not willing to consider OMB's proposal it was agreed that another conference call would not be scheduled.

**March 4, 2020 Quarterly Meeting****Introduction**

Steve Detwiler informed the group that Mitchell Graham broke his leg and will be out on medical leave for possibly a few months.

**LMS 5-Year Update**

Steve Detwiler will be directing this update with the State of Florida and FEMA. He will likely be sending out parts of the LMS for additional review by the LMS partners. The first will likely include Part 6 which highlights completed projects.

**WebEOC LMS Board and Point of Contact Forms**

The WebEOC access for LMS members in the past has been through an organization account. However, due to security changes accounts to access the WebEOC LMS Board will be by individual. As a result Steve Detwiler sent an email out to all LMS partners to complete a Point of Contact Form which designates the individuals that need to have access to WebEOC. This form will also be used to create a new email distribution list. Mr. Detwiler has also required that for organizations to be considered an active member of the LMS they must complete these forms annually.

We have received completed Point of Contact forms from the following partners:

- Vizcaya Museum & Gardens
- Miami-Dade Department of Transportation & Public Works
- Miami-Dade Internal Services Department
- Miami-Dade Public Housing Department
- Port Miami
- Miami-Dade Office of Resilience
- Citrus Health Network
- Jackson Health Systems
- Mount Sinai Medical Center
- City of Coral Gables
- City of Doral
- Florida City
- City of Homestead
- City of Miami Gardens
- City of Miami Springs
- City of Sweetwater
- Miami Shores Village
- Town of Cutler Bay
- Town of Miami Lakes
- Village of Pinecrest
- Miami Dade College
- University of Miami

These points of contact have the following responsibilities:

- Respond to day-to-day communications from OEM.
- Participate in the quarterly LMS meetings or designate someone to attend.
- Forward relevant information to their coworkers, senior managers and/or elected officials.

An email was sent out on February 25. LMS members have until Friday, March 16th to complete these forms and send them to Kulsum Agha at: [Kulsum.Agha@miamidade.gov](mailto:Kulsum.Agha@miamidade.gov)

### **Drone Use in Mitigation and Damage Assessment**

Bob Stewart and Dan Martin presented on their company's drone program. Their company has FAA certified drone pilots. They have used their drones in numerous missions to include damage assessment and mitigation projects. This has included digital surface modeling, storm surge and flood level tracking. This includes determines washout measurements. The drones have also been used to map both visually and by 3-d modelling for debris management operations.

### **ILC Dover Flood Protection Group**

Steve Brady gave an overview of the products his company offers in flood protection. This company was founded in 1947 and has five business areas:

- Space Systems
- Aerospace and Maritime
- Infrastructure Protection
- Containment Systems
- Protective equipment

Under infrastructure protection the company provides products in dry flood proofing, this include flex wall technology. This system can be open and operated by a small group of personnel. The company began providing this product after Hurricane Sandy. In the Mitigation Assessment Team report FEMA found that 90% of buildings with dry flood proofing systems wasn't effective or wasn't used properly.

### **Back Bay Study**

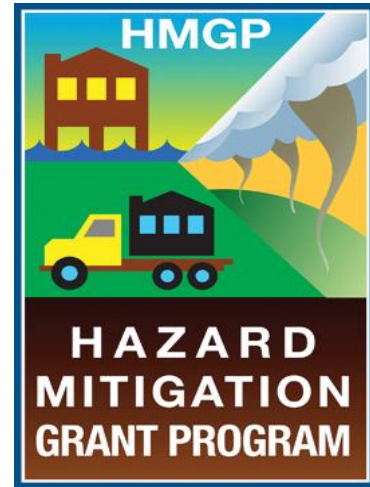
Katie Hagemann gave a briefing on this study which is ongoing. This project is being led by the U.S. Army Corps of Engineers. This is one of several studies ongoing in South Florida. This project is designed to make recommendations on reducing the impact of hurricanes and protecting critical facilities. The study itself is being revamped based on initial input from Miami-Dade County. This study so far is including flood proofing recommendations (elevation and buyouts). One of the initial recommendations is storm surge barriers in three locations in the County with 110 individual flood gates. The draft plan will likely be made available in April 2020. Steve Detwiler will send it out to the LMS members.

**Hurricane Michael HMGP**

Mr. Detwiler provided an update on this grant program. The LMS Steering Committee submitted the ranking list to the Florida Division of Emergency Management (FDEM) in January 2020. The initial ranking list had 39 projects listed:

- As of March 4<sup>th</sup>, eight organizations have submitted 15 applications to FDEM worth \$13.8 Million.

The deadline to apply for this grant is March 10, 2020. Mr. Detwiler reminded partners to inform him on whether they are or are not submitting an application. Requests for support letters should also be sent to Mr. Detwiler.

**CDBG-Mitigation**

Mr. Detwiler informed the partners that the State Action Plan was submitted to the U.S. Department of Housing and Urban Development (HUD) on February 3. This plan is available [here](#).

Miami-Dade County collected comments on this plan from numerous municipalities and County departments:

- A majority of Miami-Dade County comments were not added to the action plan.
- County was successful in adding Non-Profit Organizations as applicants for the different programs.

**Elected Officials Coordination**

Mr. Detwiler asked that the LMS partners to keep your elected and appointed officials aware of your LMS activities. This should include:

- Projects listed in the LMS and your priorities
- What mitigation grants your organization has applied for?
- If you need assistance in briefing these officials please let Mr. Detwiler know.

**Discussion on Florida Administration Code 27P-22 Public Workshop**

Mr. Detwiler provided a briefing on the Florida Division of Emergency Management upcoming public workshop on revising this administrative code that governs the LMS Working Groups and the ranking of projects for HMGP projects.

This public workshop will occur on March 13 at 3pm. The call-in information is: 1-888-585-9008 Conference Code: 454-953-845.

This rule change will allow the State to override the County's ranking on HMGP projects and establish their own agenda for funding. Mr. Detwiler asked that municipal members be on the call to inform the State that they are not in agreement regarding this rule change.



**Novel Coronavirus Discussion**

Mr. Detwiler provided a short briefing on this virus. As of March 3<sup>rd</sup> there was a total of 88 confirmed and presumptive positive cases in the United States as of March 2. There were two confirmed cases in Hillsborough and Sarasota counties.

CDC recommends everyday preventive actions to help prevent the spread of respiratory diseases, including:

- Avoid close contact with people who are sick.
- Avoid touching your eyes, nose, and mouth.
- Stay home when you are sick.
- Cover your cough or sneeze with a tissue, then throw the tissue in the trash.
- Clean and disinfect frequently touched objects and surfaces using a regular household cleaning spray or wipe.
- Wash your hands often with soap and water for at least 20 seconds, especially after going to the bathroom; before eating; and after blowing your nose, coughing, or sneezing.

Mr. Detwiler also informed the partners regarding the use of facemasks by personnel and employees. CDC does not recommend that people who are well wear a facemask to protect themselves. Facemasks should be used by people who show symptoms of COVID-19 to help prevent the spread of the disease to others. The use of facemasks is also crucial for health workers and people who are taking care of someone in close settings.

**Conclusion**

Mr. Detwiler concluded the meeting by stating that the tentative schedule for the 2020 LMS meetings is:

- June 3
- September 15. This meeting will be via webinar.
- December 10

If any LMS partners want to host a future meeting, please contact Steve Detwiler at: [steved@Miamiidade.gov](mailto:steved@Miamiidade.gov)

### 2015-2019 Meeting Attendance

<u>Organization</u>	<u>Jurisdiction</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
Barry University	Colleges and Universities	1	0	0	0	0
Florida International University	Colleges and Universities	4	4	3	3	4
International Hurricane Research Center	Colleges and Universities	2	2	2	2	1
Johnson and Wales University	Colleges and Universities	1	0	0	0	0
Miami Dade College	Colleges and Universities	4	3	4	4	4
St. Thomas University	Colleges and Universities	1	0	1	1	0
Talmudic University	Colleges and Universities	0	0	0	0	0
University of Florida IFAS Extension	Colleges and Universities	2	3	0	0	0
University of Miami	Colleges and Universities	4	4	3	3	2
MD-County Unincorporated MD	County	0	0	0	0	0
MD-Animal Services	County	0	2	2	2	0
MD-Aviation	County	0	0	0	0	0
MD - Communications	County	0	0	1	1	2
MD-Corrections and Rehabilitation	County	0	0	0	0	0
MD-Courts	County	0	0	0	0	0
Community Action and Human Services	County	0	0	1	1	0
MD Cultural Affairs	County	1	0	0	0	0
MD-Finance	County	2	2	2	2	1
MD - Fire Rescue	County	4	3	3	3	3
Office of Emergency Management	County	4	4	4	4	4
MD-Internal Services (GSA, HR, Procurement, A&E of CIP)	County	0	0	0	0	0
General Services Administration	County	3	3	1	1	0
MD - Information Technology Dept.	County	0	3	1	1	0

<b><u>Organization</u></b>	<b><u>Jurisdiction</u></b>	<b><u>2015</u></b>	<b><u>2016</u></b>	<b><u>2017</u></b>	<b><u>2018</u></b>	<b><u>2019</u></b>
MD-Library	County	3	4	3	3	4
MD - Management and Budget	County	4	1	4	4	3
Office of Capital Improvements	County	0	0	0	0	0
MD-Parks, Recreation and Open Spaces	County	2	3	2	2	4
Agriculture Extension	County	0	0	0	0	0
MD-Police Department	County	1	2	1	1	3
MD-Public Housing and Community Development	County	3	0	4	4	2
MD- Seaport	County	2	1	2	2	1
MD-Regulatory and Economic Resources	County	4	4	4	4	4
MD- Dept. of Solid Waste Management	County	2	4	2	2	3
MD-Transit	County	3	1	3	3	0
MD-Public Works	County	4	4	1	1	2
Vizcaya Museum and Garden	County	3	0	2	2	4
MD- Water & Sewer Dept.	County	3	0	3	3	4
Miami Dade County Public Schools	County	4	3	2	2	4
South Florida Water Management District	Regional	1	1	0	0	1
FDEM	State	4	2	3	3	2
Florida Forest Service	State	0	0	0	0	1
Florida Department of Health	State	1	1	0	0	2
FEMA	Federal	0	0	1	1	0
Homestead Air Reserve Base	Federal	1	0	0	0	0
Miami VA	Federal	0	0	0	0	0
NOAA	Federal	1	4	3	3	0
NWS Miami	Federal	0	0	0	0	2
SBA	Federal	0	0	0	0	0
US ARMY	Federal	0	0	1	1	0
USDA	Federal	0	0	0	0	0

<b>Organization</b>	<b>Jurisdiction</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
Baptist Health	Hospital/Health Care	2	4	2	2	1
Citrus Health	Hospital/Health Care	4	4	2	2	4
Health Choice Network	Hospital/Health Care	0	0	0	0	0
Jackson Health Systems	Hospital/Health Care	4	3	3	3	4
Mercy	Hospital/Health Care	0	0	0	0	0
Miami Beach Community Health Center	Hospital/Health Care	3	2	1	1	1
Miami Jewish Health System	Hospital/Health Care	0	0	0	0	1
Mount Sinai Medical Center	Hospital/Health Care	2	2	0	0	4
Niklaus Children's Hospital	Hospital/Health Care	2	0	1	1	0
Aventura	Municipalities	2	4	1	1	1
Bal Harbour	Municipalities	3	1	2	2	0
Bay Harbor	Municipalities	3	2	2	2	0
Biscayne Park	Municipalities	2	1	0	0	0
Coral Gables	Municipalities	1	2	2	2	3
Cutler Bay	Municipalities	4	4	4	4	4
Doral	Municipalities	4	4	4	4	4
El Portal	Municipalities	3	1	1	1	4
Florida City	Municipalities	3	3	3	3	2
Golden Beach	Municipalities	0	2	0	0	0
Hialeah	Municipalities	4	3	3	3	0
Hialeah Gardens	Municipalities	2	0	1	1	1
Homestead	Municipalities	3	4	3	3	1
Key Biscayne	Municipalities	4	3	4	4	1
Medley	Municipalities	4	3	2	2	1
Miami	Municipalities	4	4	4	4	2
Miami Beach	Municipalities	4	4	4	4	3
Miami Gardens	Municipalities	4	4	4	4	4
Miami Lakes	Municipalities	4	2	4	4	3
Miami Shores	Municipalities	2	3	4	4	4

<u>Organization</u>	<u>Jurisdiction</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
Miami Springs	Municipalities	2	3	0	0	1
North Bay Village	Municipalities	2	4	2	2	0
North Miami	Municipalities	4	4	4	4	3
North Miami Beach	Municipalities	4	3	3	3	2
Opa-locka	Municipalities	1	2	1	1	0
Palmetto Bay	Municipalities	2	4	4	4	4
Pinecrest	Municipalities	3	3	3	3	2
South Miami	Municipalities	1	2	0	0	0
Sunny Isles	Municipalities	1	0	2	2	2
Surfside	Municipalities	0	3	2	2	1
Sweetwater	Municipalities	4	2	2	2	1
Virginia Gardens	Municipalities	3	3	4	4	4
West Miami	Municipalities	0	1	1	1	2
Broward	Region	0	2	1	1	0
American Red Cross	PNP	0	2	0	0	0
Chapman Partnership (Homeless)	PNP	0	0	1	1	0
dsi	PNP	0	0	1	1	0
Jessie Trice Community Health Center	PNP	0	0	0	0	1
Mactown	PNP	0	0	2	2	3
Camilus House	PNP	0	0	0	0	4
United Community Options	PNP	0	0	0	0	1
McMullen Opportunity Center	PNP	0	0	0	0	1
FPL	Utility	3	3	3	3	0
AECOM/URS	Private	0	1	0	0	0
Aluces Corporation	Private	3	0	0	0	0
AMEC	Private	4	3	0	0	0
ARCADIS	Private	1	0	0	0	0
Bermello Ajamil & Partners, Inc.	Private	0	0	0	0	1
CRS Max	Private	2	0	0	0	0
Downtown Development Authority	Private	2	2	0	0	0
Ecostrata Services	Private	0	0	0	0	1



<u>Organization</u>	<u>Jurisdiction</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
ILC Dover	Private	0	0	0	0	0
ISC Consulting Group	Private	0	0	0	0	1
Tidal Basin	Private	0	0	0	0	2
Moffatt and Nichol	Private	1	0	0	0	1
T.Y. Lin International	Private	0	0	0	0	1
Verizon	Private	0	0	0	0	0
Walgreens	Private	1	0	0	0	0
Guests	N/A	3	3	1	0	0