Bering Sea Coastal Storm

Tuesday through Thursday

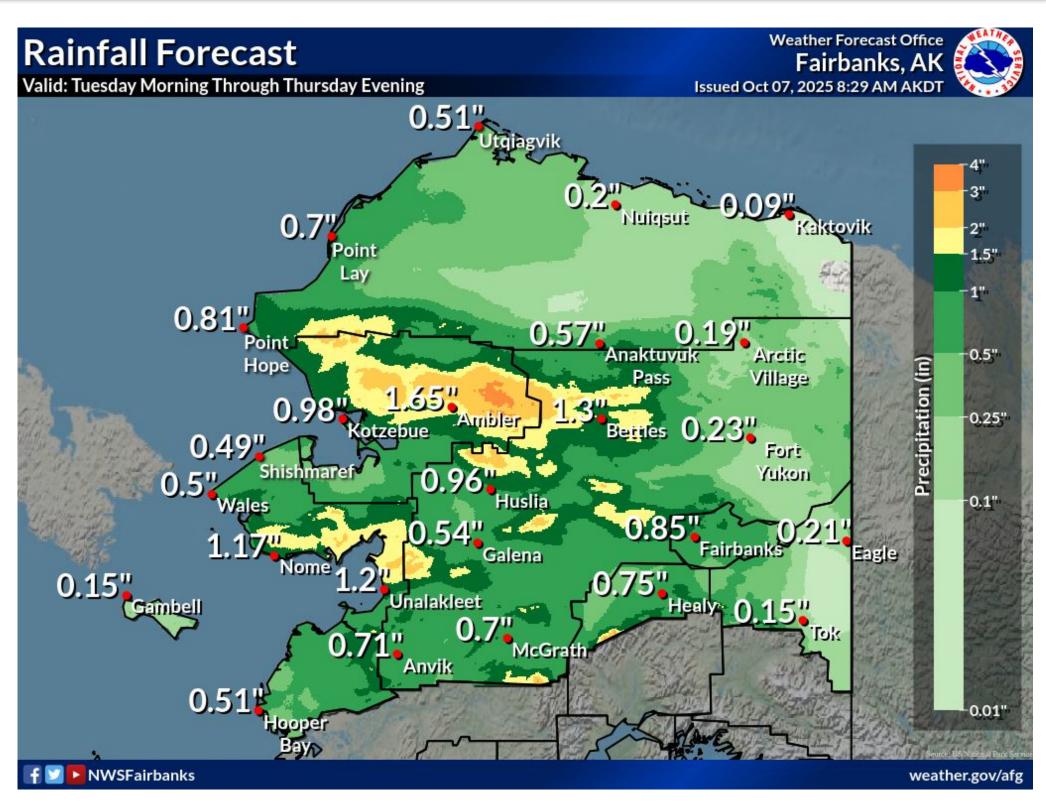
Fairbanks, AK
Tuesday, October 7

Weather Forecast Office

NWS Fairbanks Team

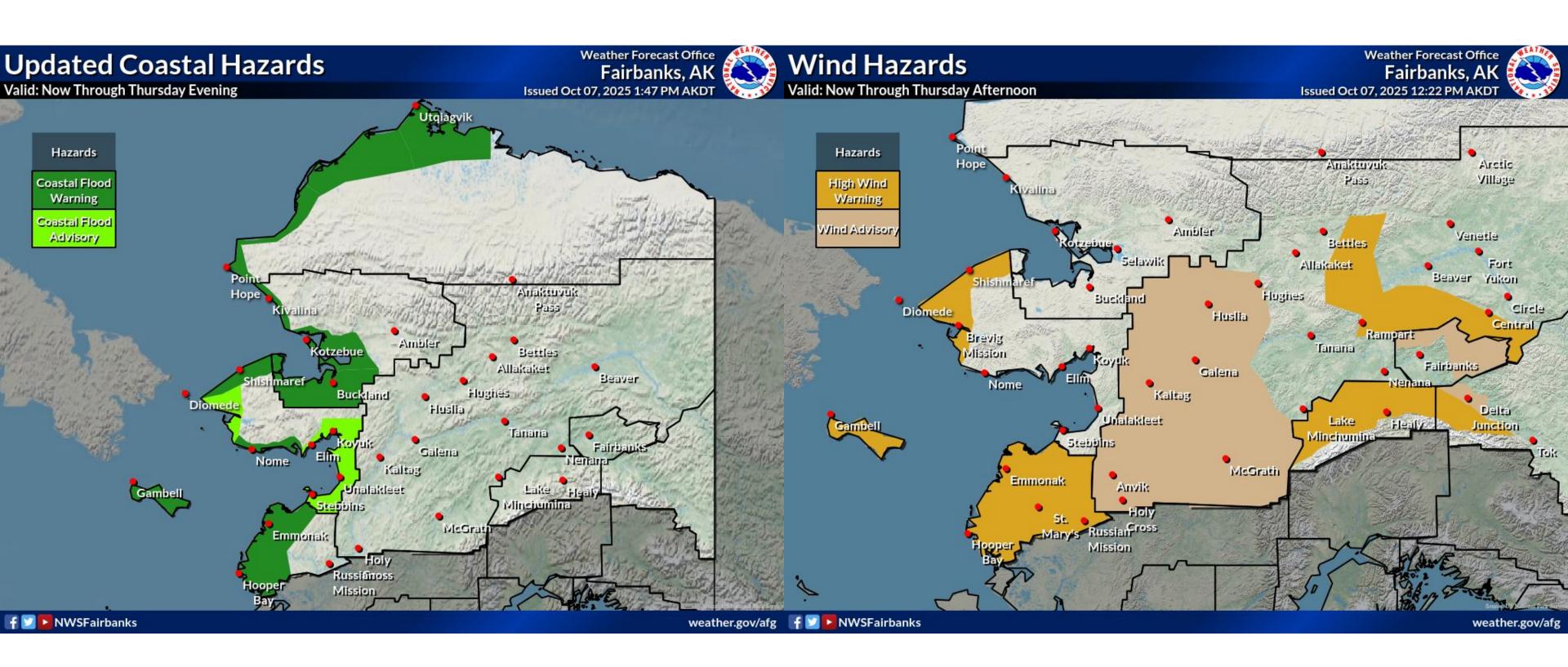
Changes since the last briefing:

- Upgraded Golovin to a warning.
- Issued more Wind Advisories and High Wind Warnings.
- Added updated water level guidance for specific communities (Slides 11-60).





Updated Watches, Warnings & Advisories



Slides 3-10: General Information

Slides 11-12: Utqiagvik

Slides 13-14: Wainwright

Slides 15-16: Point Lay

Slides 17-18: Point Hope

Slides 19-20: Kivalina

Slides 21-22: Kotzebue

Slides 23-24: Deering

Slides 25-26: Shishmaref

Slides 27-28: Wales

Slides 29-30: Diomede

Slides 31-32: Brevig Mission

Slides 33-34: Teller

Slides 35-36: Nome

Slides 37-38: Golovin

Slides 39-40: Elim

Slides 41-43: Koyuk and Shaktoolik

Slides 44-45: Unalakleet

Slides 46-48: St. Michael and Stebbins

Slides 49-50: Kotlik

Slides 51-52: Nunam Iqua

Slides 53-54: Hooper Bay

Slides 55-56: Scammon Bay

Slide 57: Chevak

Slides 58-60: St. Lawrence Island



Coastal Flood Warnings and Advisories

UPDATE

Hazard Information



Significant coastal flooding and/or erosion expected.



Western North Slope, Chukchi Sea Coast, Kotzebue Sound, Bering Strait Region, Norton Sound and the Yukon Delta...

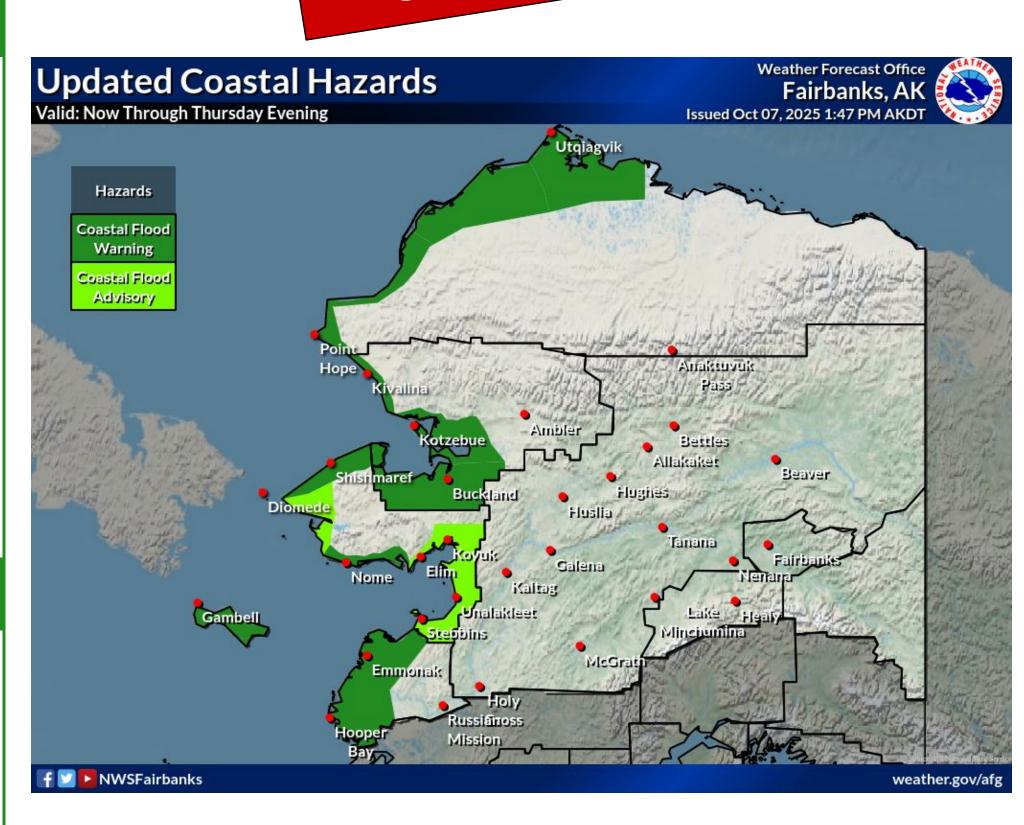


From Tuesday 4:00 PM to Thursday 4:00 PM

Impacts



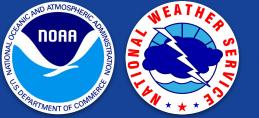
- Localized inundation expected in some communities.
- Fresh water intake and fuel tanks *could* be at risk in the most vulnerable communities.
- Significant beach erosion will occur.





Communities, Water Levels, Timing and Winds

Community	Peak Water Level Above Normal Highest Tide Line	Highest Water Timing	Strongest Winds and Direction
Utqiagvik	3 to 4 feet	Wednesday Late Afternoon and Overnight	SW Gusts up to 40 mph early Thursday morning
Wainwright	4 to 6 feet	Wednesday Late Afternoon and Overnight	SW Gusts up to 40 mph early Thursday morning
Point Lay	6 to 8 feet	Wednesday Late Afternoon and Overnight	SW Gusts up to 50 mph late Wednesday into early Thursday morning
Point Hope	6 to 8 feet	Wednesday Afternoon and Overnight	S/SW Gusts up to 45 mph Wednesday afternoon and evening
Kivalina	6 to 8 feet	Wednesday Early Afternoon and Overnight	SW Gusts up to 50 mph Wednesday afternoon and evening
Kotzebue	6 to 10 feet	Wednesday Afternoon and Overnight	SW Gusts up to 55 mph Wednesday afternoon and evening
Deering	4 to 8 feet	Wednesday Afternoon and Overnight	SW Gusts up to 45 mph Wednesday afternoon and evening
Shishmaref	5 to 8 feet	Wednesday Afternoon and Overnight	SW Gusts up to 55 mph Wednesday afternoon and evening
Diomede	2 to 5 feet	Wednesday Afternoon and Overnight	SW Gusts up to 55 mph Wednesday morning through evening/overnight
Wales	4 to 7 feet	Wednesday Evening and Overnight	SW Gusts up to 60 mph Wednesday morning through evening



Communities, Water Levels, Timing and Winds

Community	Peak Water Level Above Normal Highest Tide Line	Highest Water Timing	Strongest Winds and Direction
Nome	6 to 8 feet	Wednesday Morning through Thursday Morning	SW Gusts up to 50 mph through Wednesday evening
Golovin	6 to 8 feet	Wednesday Morning Through Thursday Morning	SW Gusts up to 45 mph through Wednesday evening
Koyuk	8 to 11 feet	Wednesday Morning through Thursday Morning	SW Gusts up to 45 mph through Wednesday evening
Shaktoolik	7 to 9 feet	Wednesday Morning through Thursday Morning	SW Gusts up to 50 mph through Wednesday evening
St. Michael	5 to 8 feet	Wednesday Morning through Thursday Morning	SW Gusts up to 45 mph through Wednesday evening
Stebbins	5 to 8 feet	Wednesday Morning through Thursday morning	SW Gusts up to 45 mph through Wednesday evening
Unalakleet	5 to 8 feet	Wednesday Morning Through Thursday Morning	SW Gusts up to 45 mph through Wednesday evening
Nunam Iqua	4 to 6 feet	Tuesday Evening through Wednesday Evening	SW Gusts up to 50 mph through Wednesday evening
Hooper Bay	4 to 6 feet	Tuesday Evening through Wednesday Evening	SW Gusts up to 50 mph through Wednesday evening
Savoonga	2 to 3 feet	Tuesday Afternoon through Wednesday Evening	SW Gusts up to 50 mph through Wednesday evening
Gambell	2 to 3 feet	Tuesday Afternoon through Wednesday Evening	SW Gusts up to 50 mph through Wednesday evening

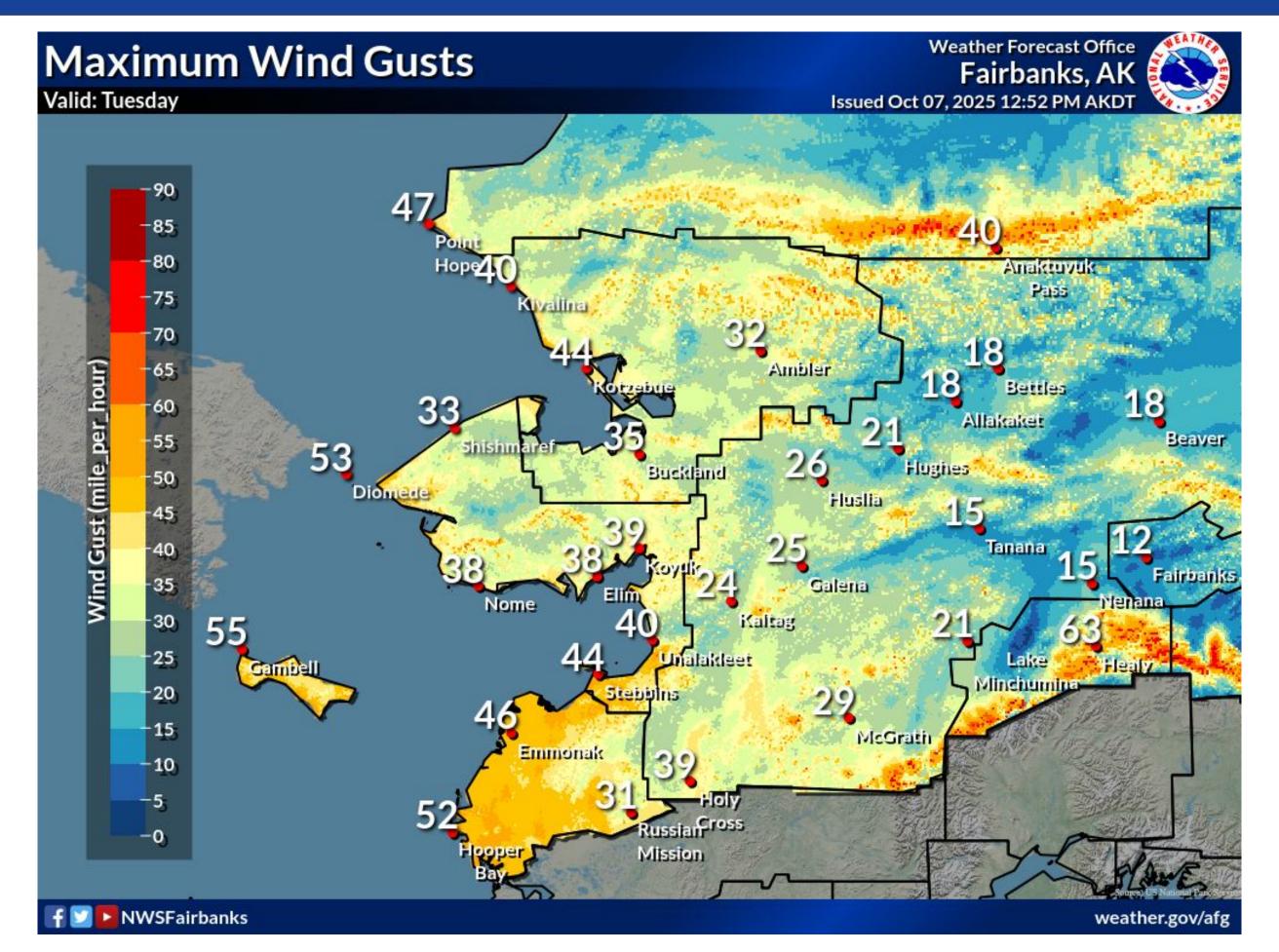


Communities, Water Levels, Timing and Winds

Community	Peak Water Level Above Normal Highest Tide Line	Highest Water Timing	Strongest Winds and Direction
Elim	6 to 9 feet	Wednesday Morning through Thursday Morning	SW Gusts up to 40 mph through Wednesday evening
Kotlik	3 to 6 feet	Wednesday Morning through Thursday Morning	SW Gusts up to 40 mph through Wednesday evening
Chevak	4 to 6 feet	Tuesday Evening through Wednesday Evening (Flooding is not expected)	SW Gusts up to 40 mph through Wednesday evening
Scammon Bay	4 to 6 feet	Tuesday Afternoon through Wednesday Evening	SW Gusts up to 40 mph through Wednesday evening
Teller	4 to 8 feet	Tuesday Afternoon through Thursday Morning	SW Gusts up to 50 mph Wednesday morning through Wednesday evening.
Brevig Mission	4 to 8 feet	Wednesday Afternoon through early Thursday Morning	SW Gusts up to 55 mph Wednesday morning through Wednesday evening

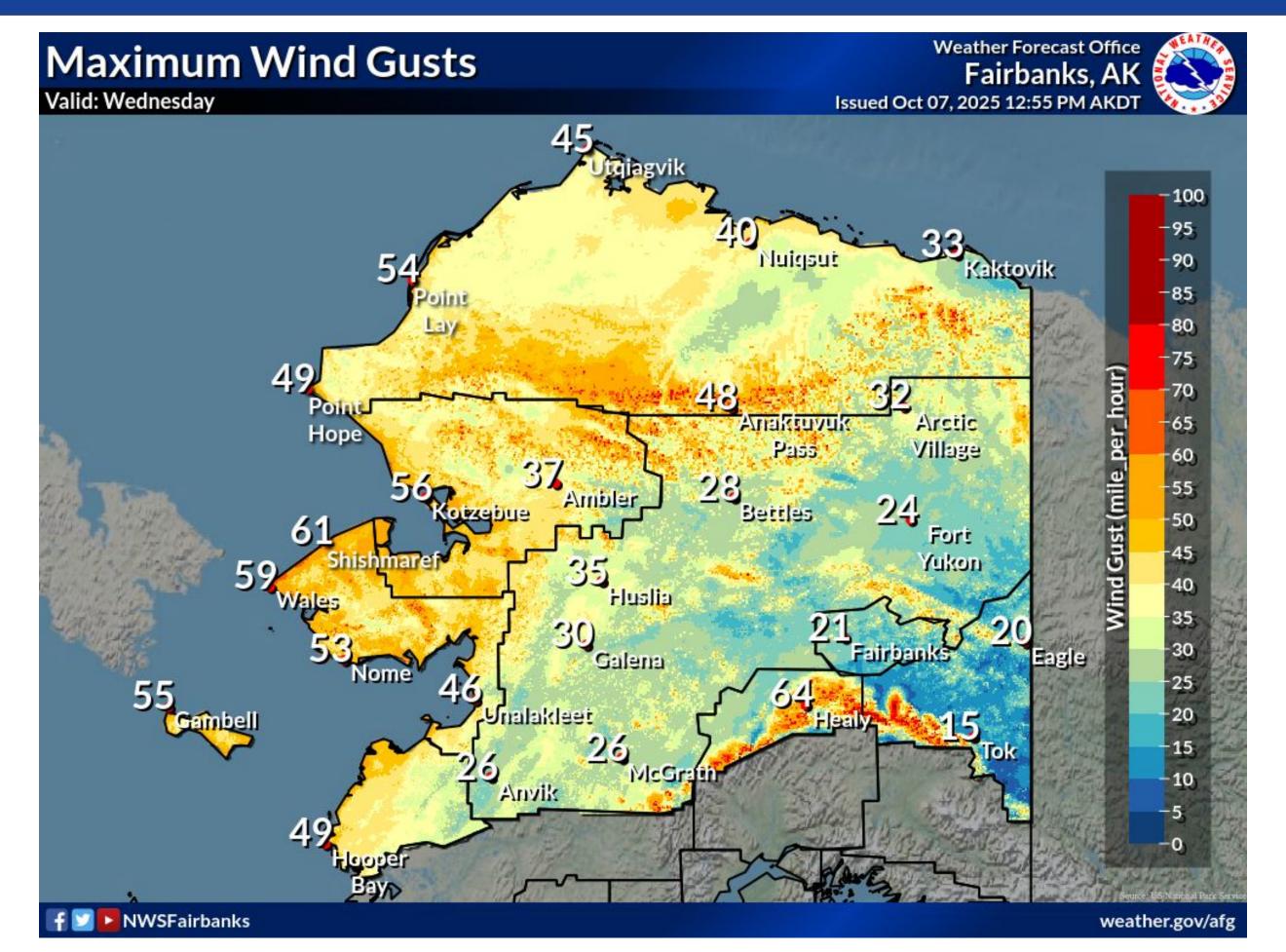


Maximum Wind Gusts for Tuesday



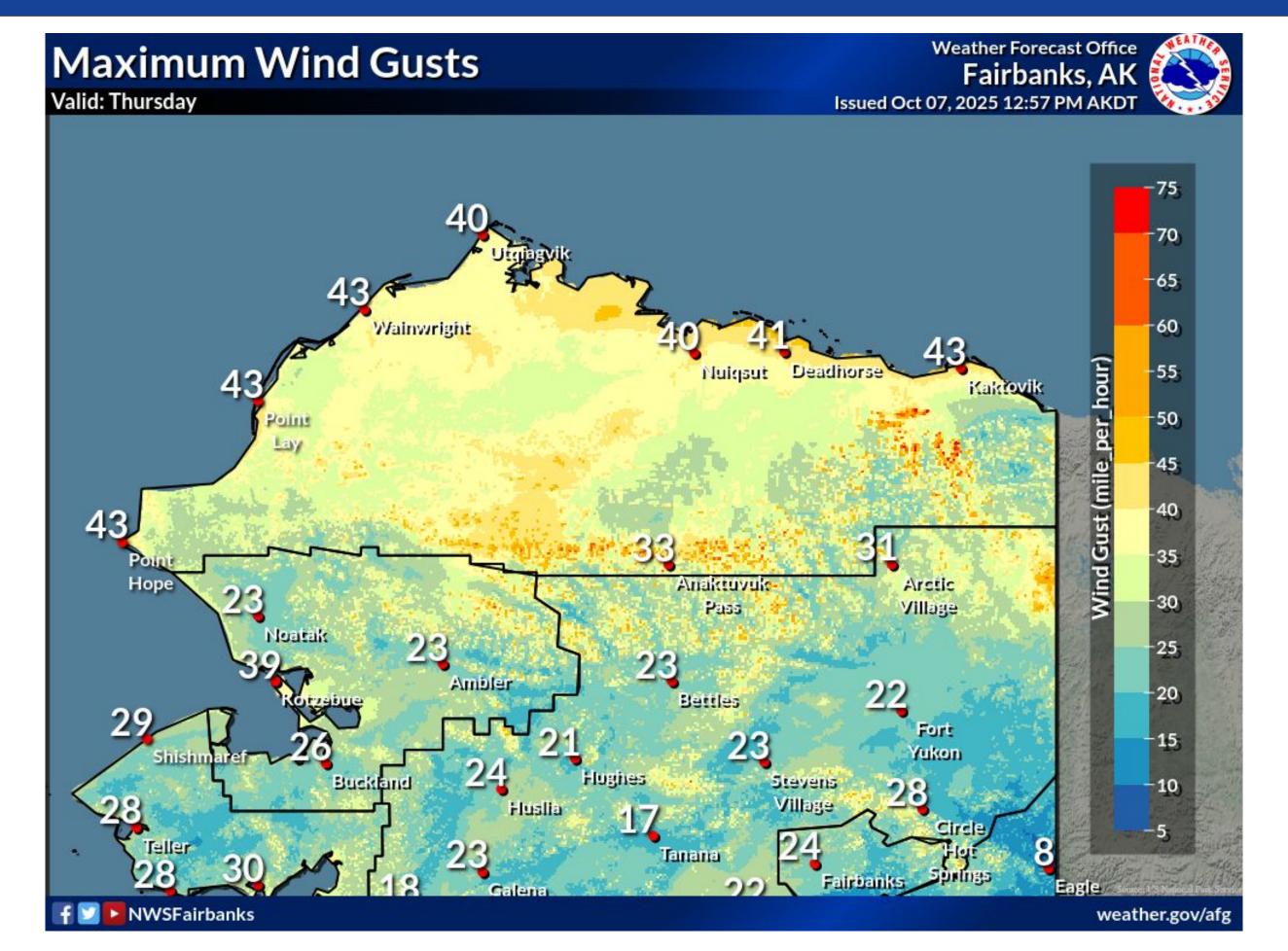


Maximum Wind Gusts for Wednesday





Maximum Wind Gusts for Thursday



IMPACTS:

- Numerous roads may be closed.
- Low lying property including homes, businesses, and some critical infrastructure may be inundated.
- Significant shoreline erosion will occur.
- Water levels won't return to near normal until Friday at the earliest.

What to Expect:

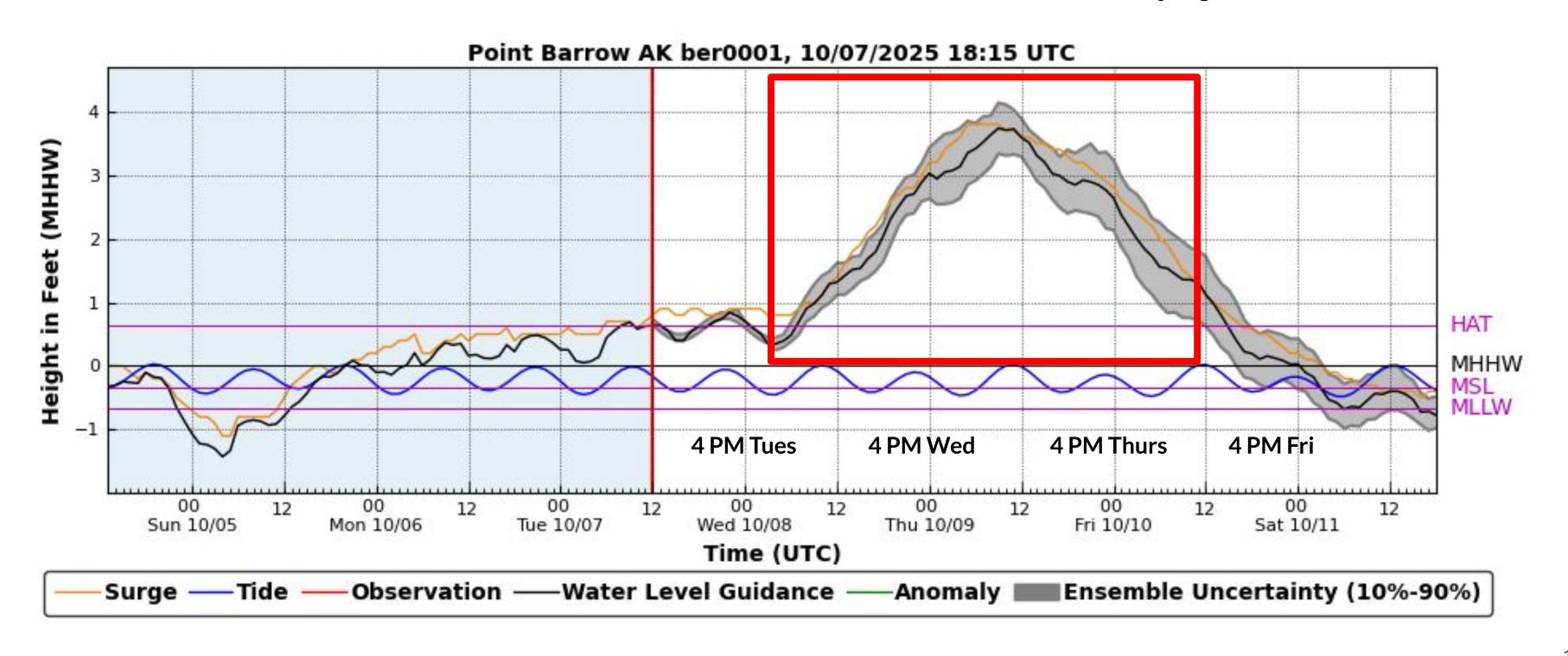
Water levels: 3-4 feet above the normal highest tide line

Timing: Peak water levels will arrive late Wednesday night into Thursday morning (1 AM to 5 AM) then recede gradually through Thursday night

Winds: West/northwest winds around 25 to 35 mph



- Multiple High Tides
- Highest Water levels between Wednesday afternoon and Thursday night



IMPACTS:

- Extensive erosion of the bluff may occur.
- Numerous roads may be closed.
- Low lying property including homes, businesses, and some critical infrastructure may be inundated.
- Water levels won't return to near normal until Friday at the earliest.

What to Expect:

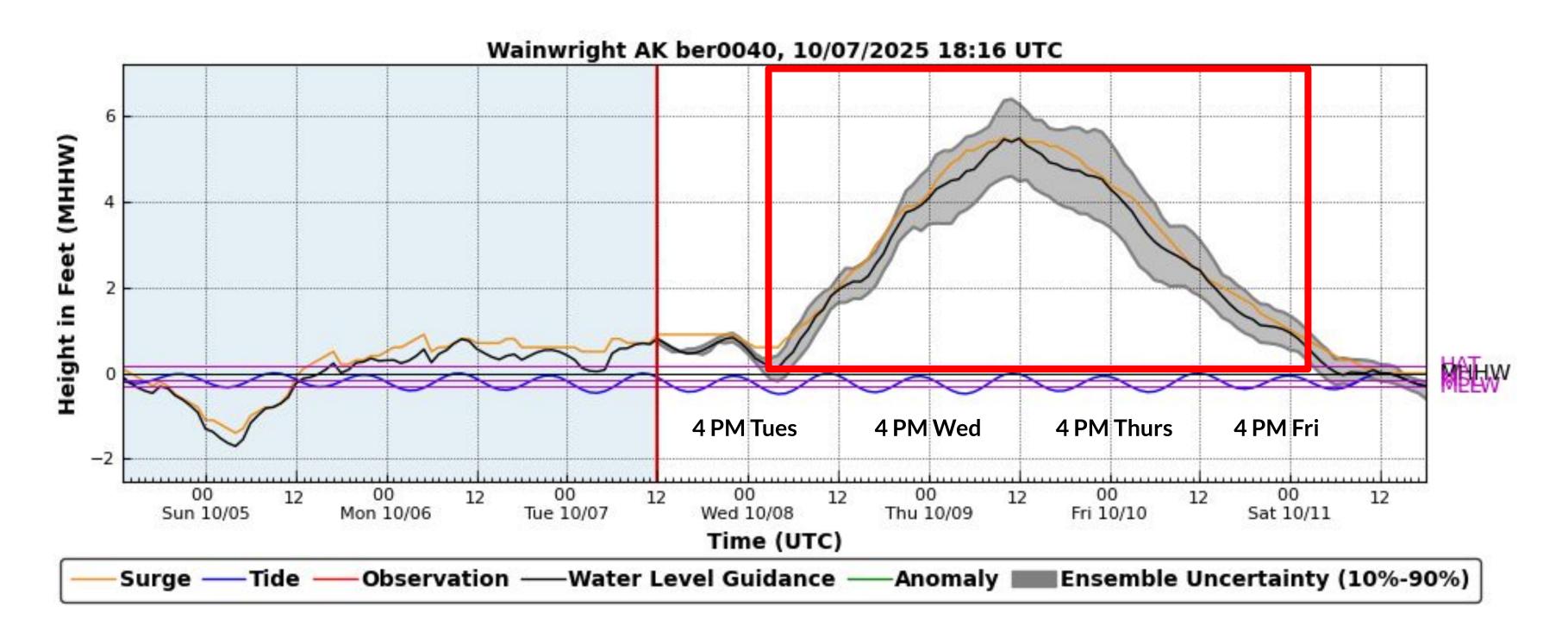
Water levels: 4-6 feet above the normal highest tide line

Timing: Peak water levels will arrive late Wednesday night into Thursday morning (11 PM to 6 AM) then recede gradually through Thursday night/Friday morning

Winds: West/northwest winds around 25 to 35 mph



- Multiple High Tides
- Highest Water levels between Wednesday night and Friday morning



IMPACTS:

- Flooding is not expected, however significant erosion is expected.
- Water levels won't return to near normal until Friday afternoon at the earliest.

What to Expect:

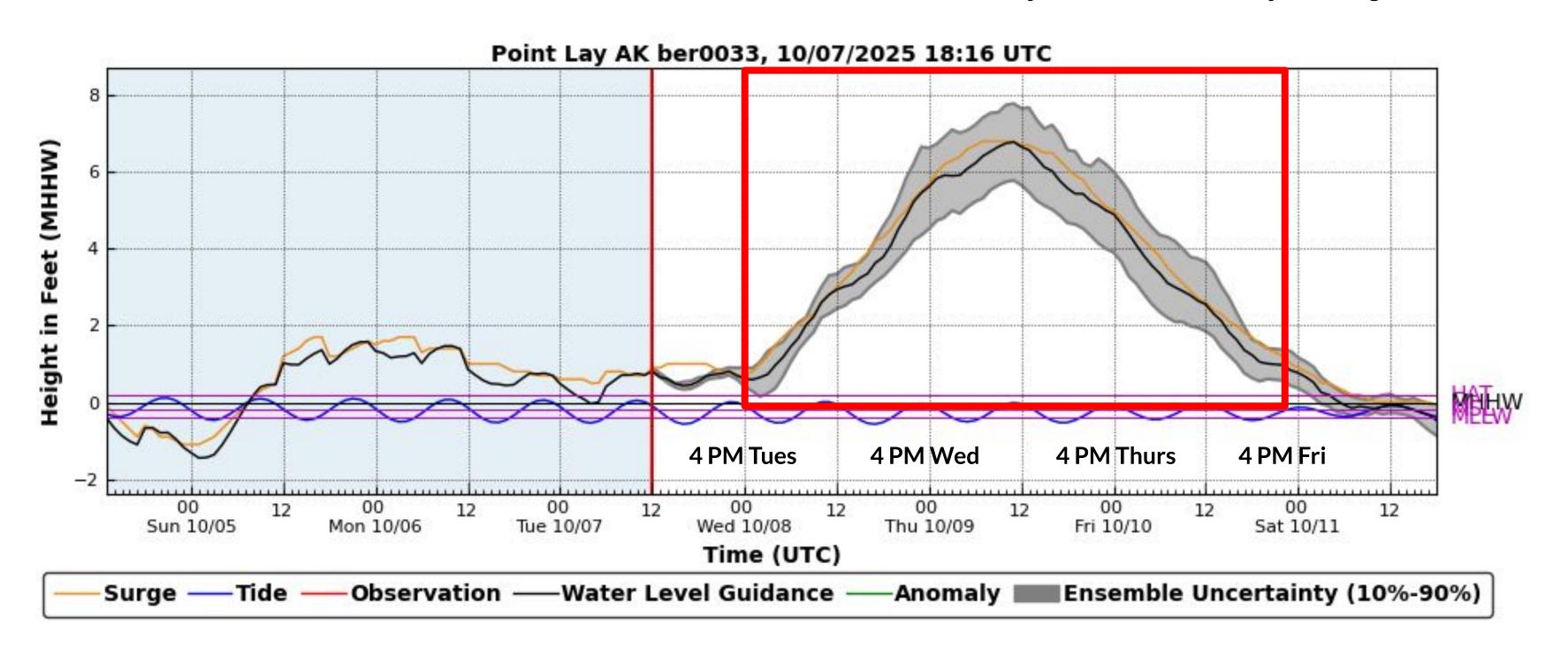
Water levels: 6-8 feet above the normal highest tide line

Timing: Peak water levels will arrive Wednesday afternoon into Thursday morning (6 PM to 6 AM) then recede gradually through Thursday night/Friday morning

Winds: West/northwest winds around 25 to 35 mph



- Multiple High Tides
- Highest Water levels between Late
 Wednesday afternoon and Friday morning



IMPACTS:

- Significant erosion of the sea wall from the north and erosion at the airport.
- Flooding of the airport on the north side is likely.
- Erosion of the berms on the south side, but flooding on the south side isn't likely.
- Water levels return to near normal on Friday at the earliest.

What to Expect:

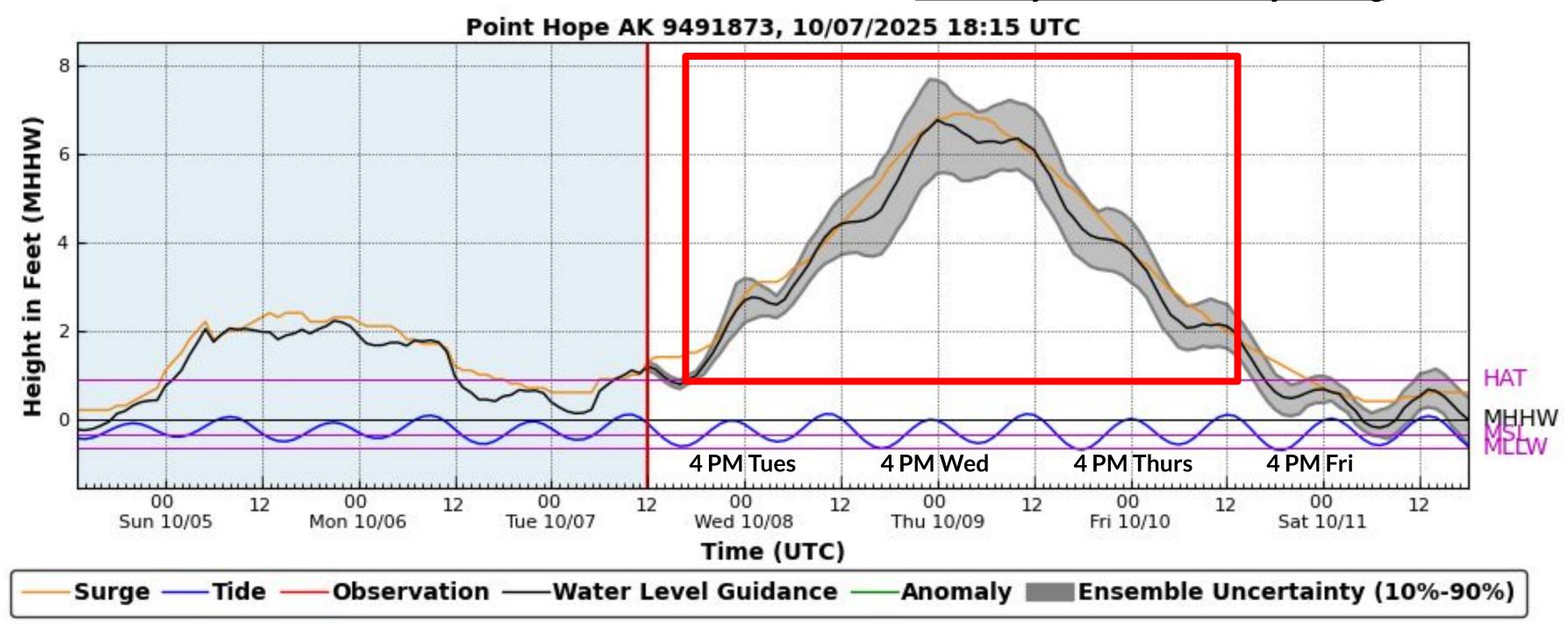
Water levels: 6-8 feet above the normal highest tide line

Timing: The highest water levels will occur Wednesday afternoon into Thursday morning

Winds: Southeast wind gusts up to 45 mph Tuesday morning through Wednesday evening, then shifting west/northwest Wednesday night and gradually weakening through Thursday.



- Multiple High Tides
- Highest Water levels between Late
 Wednesday afternoon and Friday morning



IMPACTS:

- Water will likely rise above the level of the seawall and many buildings and streets will flood
- The Native Store, Friends Church, and the water pump station will be inundated
- McQueen School and Alaska Village Electric may flood
- Few roads will be left passable in anything other than a boat

What to Expect:

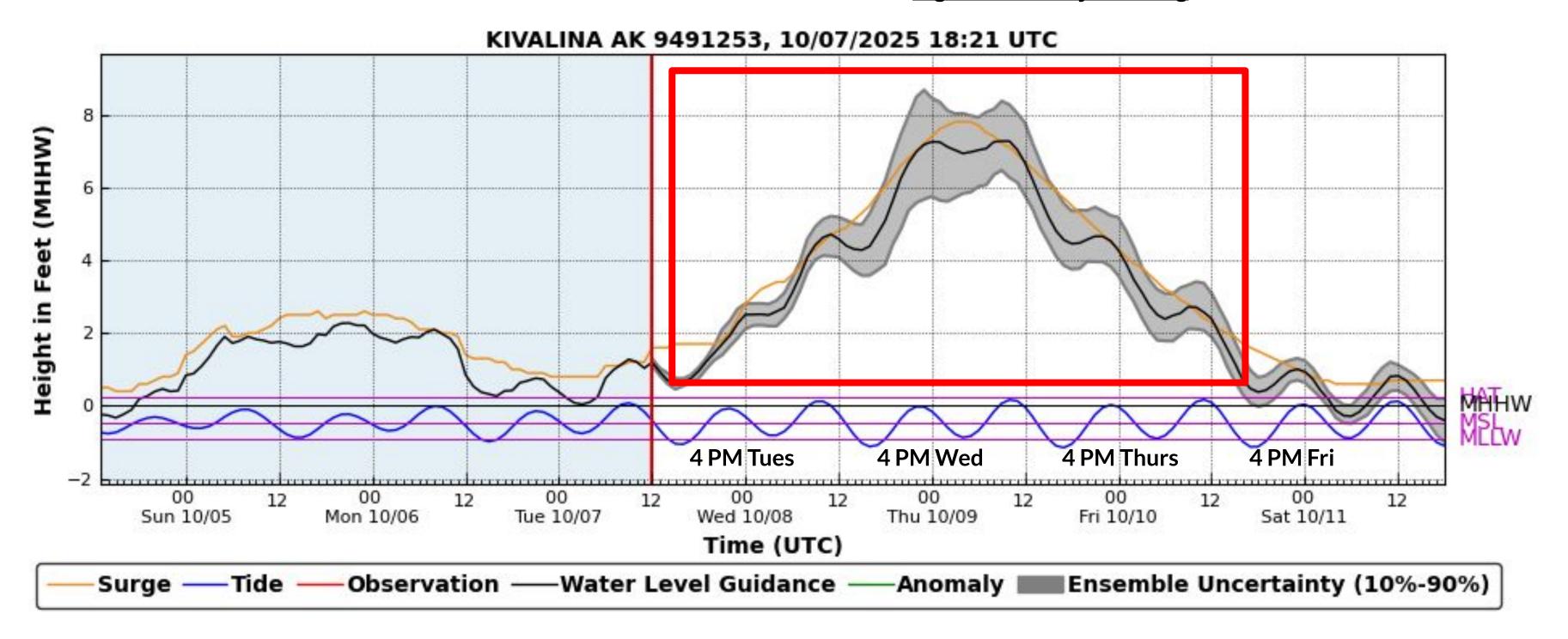
Water levels: 6-8 feet above the normal highest tide line

<u>Timing:</u> The highest water levels will occur Wednesday afternoon into Thursday morning

Winds: East gusts up to 40 mph Tuesday morning becoming south/southwesterly gusts up to 50 mph Wednesday afternoon then dropping off



- Multiple High Tides
- <u>Highest Water levels between Late Tuesday</u> <u>night and Friday morning</u>



IMPACTS:

- This storm will rival or surpass the flood from October 2024 (which was 6.5 ft).
- Coastal flooding in the city possible if it gets to 9 feet.
- Sewage lagoon at risk of flooding.
- Post office, Nulagvik Hotel, various restaurants and markets are susceptible to coastal flooding.
- The area near the Teacher Housing will be flooded.
- Water will approach houses and tents at the North Tent City fish camp

What to Expect:

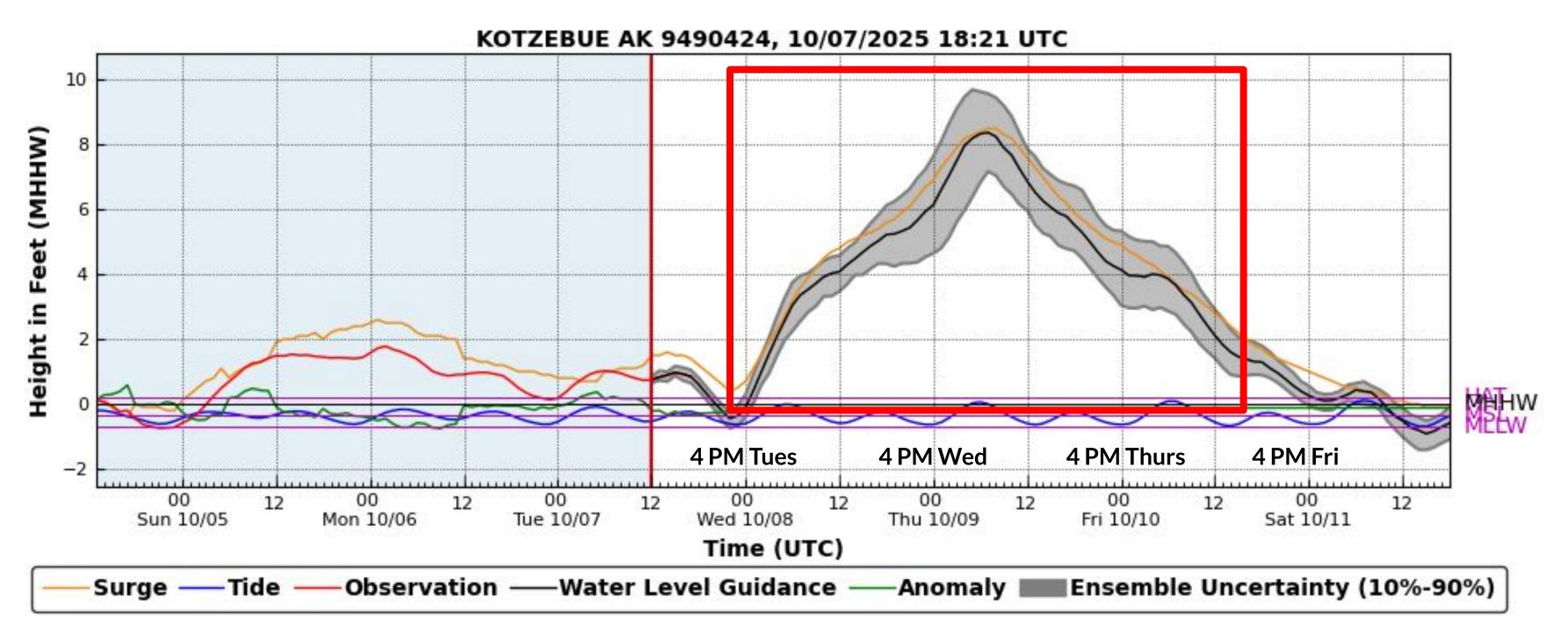
Water levels: 7-10 feet above the normal highest tide line

<u>Timing:</u> The highest water levels will occur Wednesday afternoon into Thursday morning

Winds: Southwest winds gusting to 45 mph from Tuesday morning to Wednesday night, then shifting to the northwest up to 40 mph through Thursday morning.



- Multiple High Tides
- <u>Highest Water levels between Wednesday</u> <u>afternoon and Thursday afternoon</u>



IMPACTS:

- Coastal flooding may occur.
- Road to the airport may become impassable.

What to Expect:

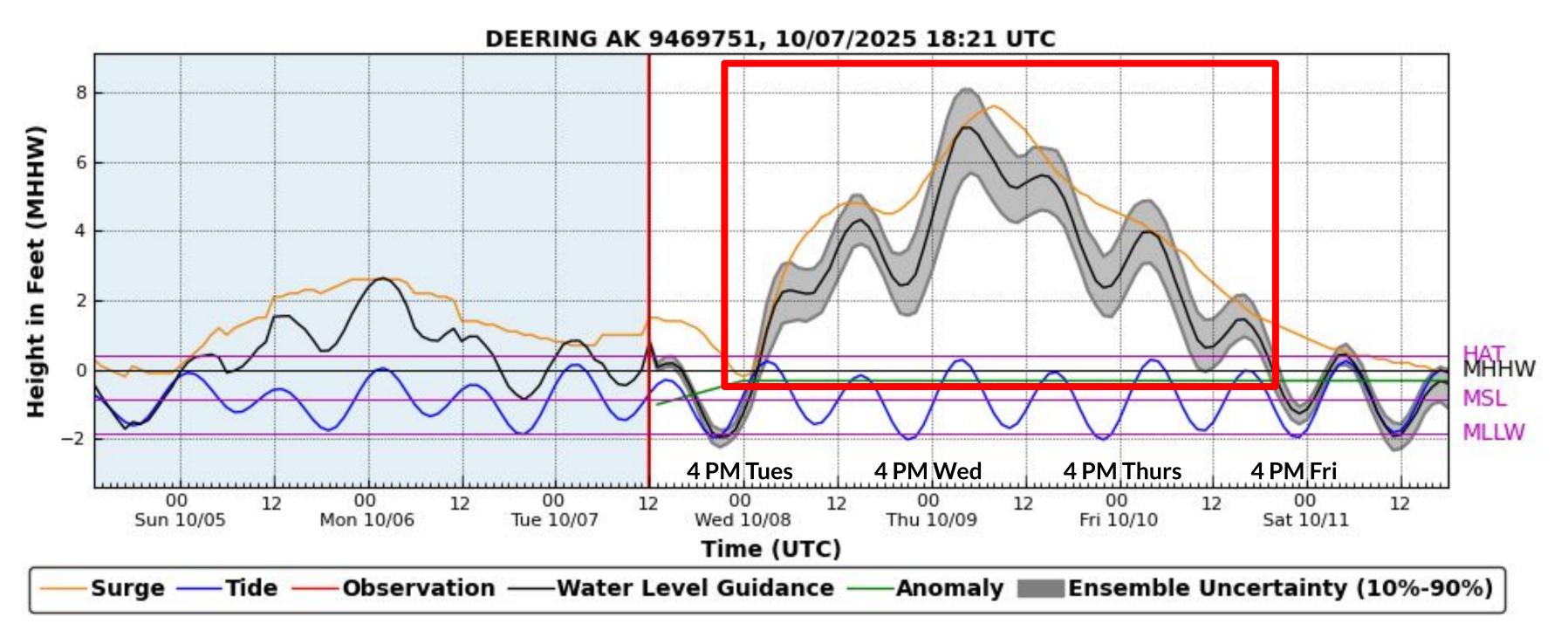
Water levels: 6-8 feet above the normal highest tide line

Timing: The highest water levels are expected to be from Wednesday afternoon through Thursday afternoon (4 PM to 4 PM)

Winds: Winds will be out of the southeast, with gusts up to 35 mph, from Tuesday morning to around midnight



- Multiple High Tides
- Highest Water levels between Wednesday night and Thursday night



IMPACTS:

- The airstrip will likely be closed
- Sanitation road may washout.
- Water will inundate many buildings on the inlet side of town including the clinic, library, and water treatment plant
- Wave run-up from the coast will inundate buildings near the sewage lagoon

What to Expect:

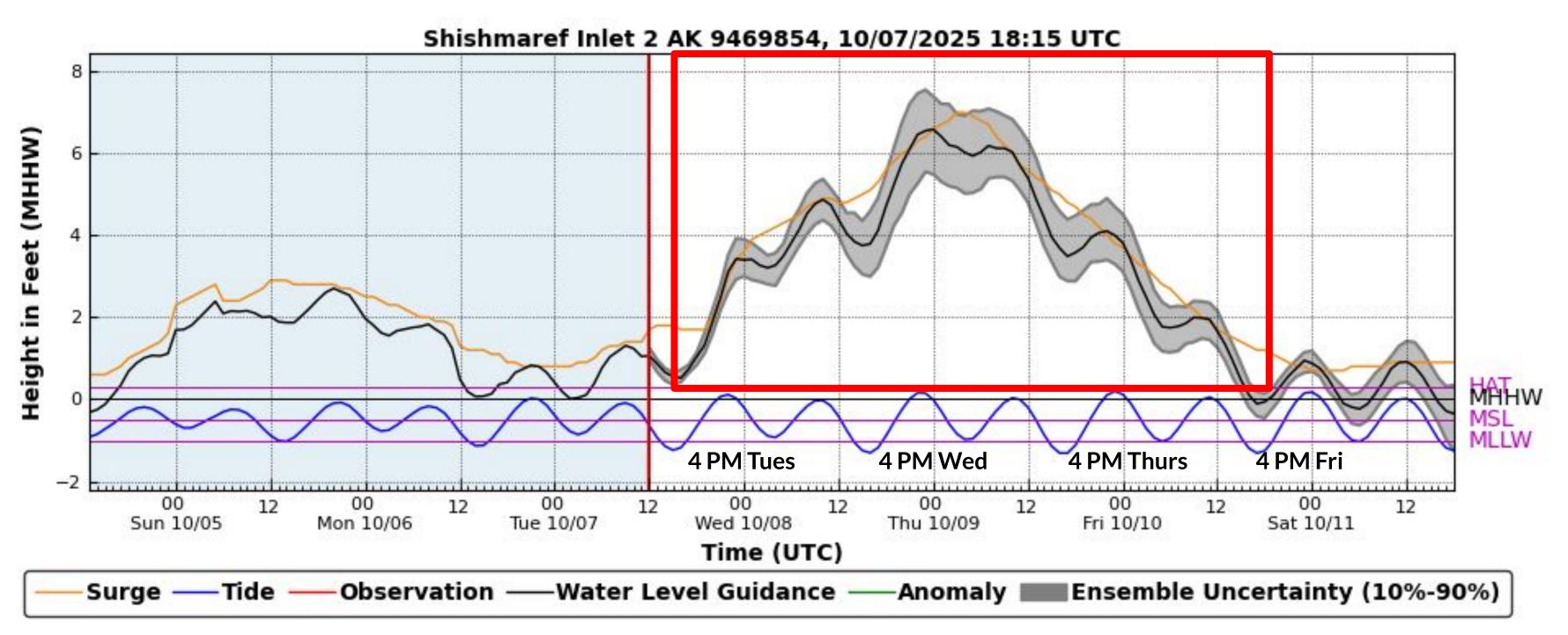
Water levels: 5-8 feet above the normal highest tide line

Timing: The highest water levels will occur Wednesday afternoon

Winds: Southwest/westerly gusts up to 50 mph Wednesday afternoon and evening then dropping off



- Multiple High Tides
- Highest Water levels between Wednesday night and Thursday night



Coastal Flood Advisory

IMPACTS:

- Buildings near the Naval Station Rd bridge including the post office will flood
- High water in village creek will approach the winter trail to Tin City
- Water will run high up on the beach and may inundate the fuel storage tank

What to Expect:

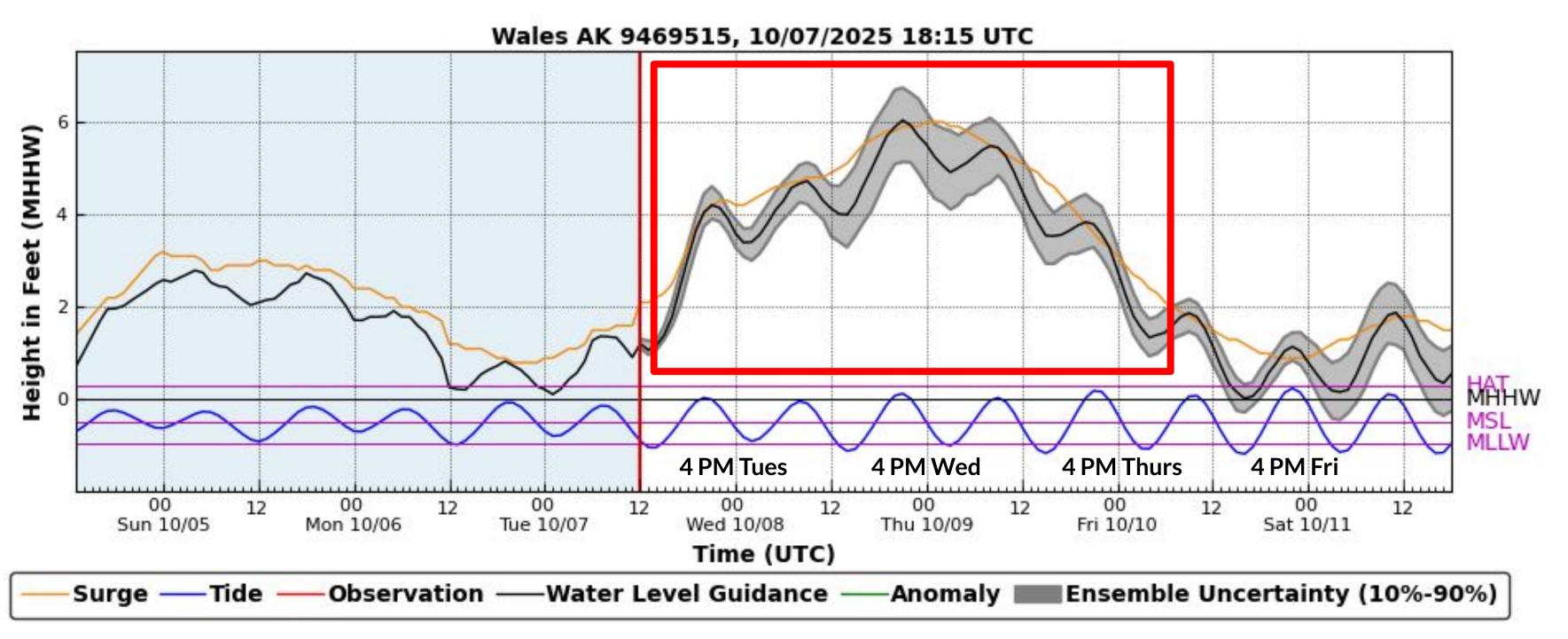
Water levels: 5-7 feet above the normal highest tide line for Wales

<u>Timing:</u> The highest water levels will occur late Wednesday morning into early Thursday morning

Winds: South/southwesterly gusts up to 50 mph Wednesday morning and afternoon then dropping off



- Multiple High Tides
- <u>Highest Water levels between Tuesday</u> <u>afternoon and Thursday afternoon</u>



IMPACTS:

 Large waves and wave runup will cause erosion and may wash items away.

What to Expect:

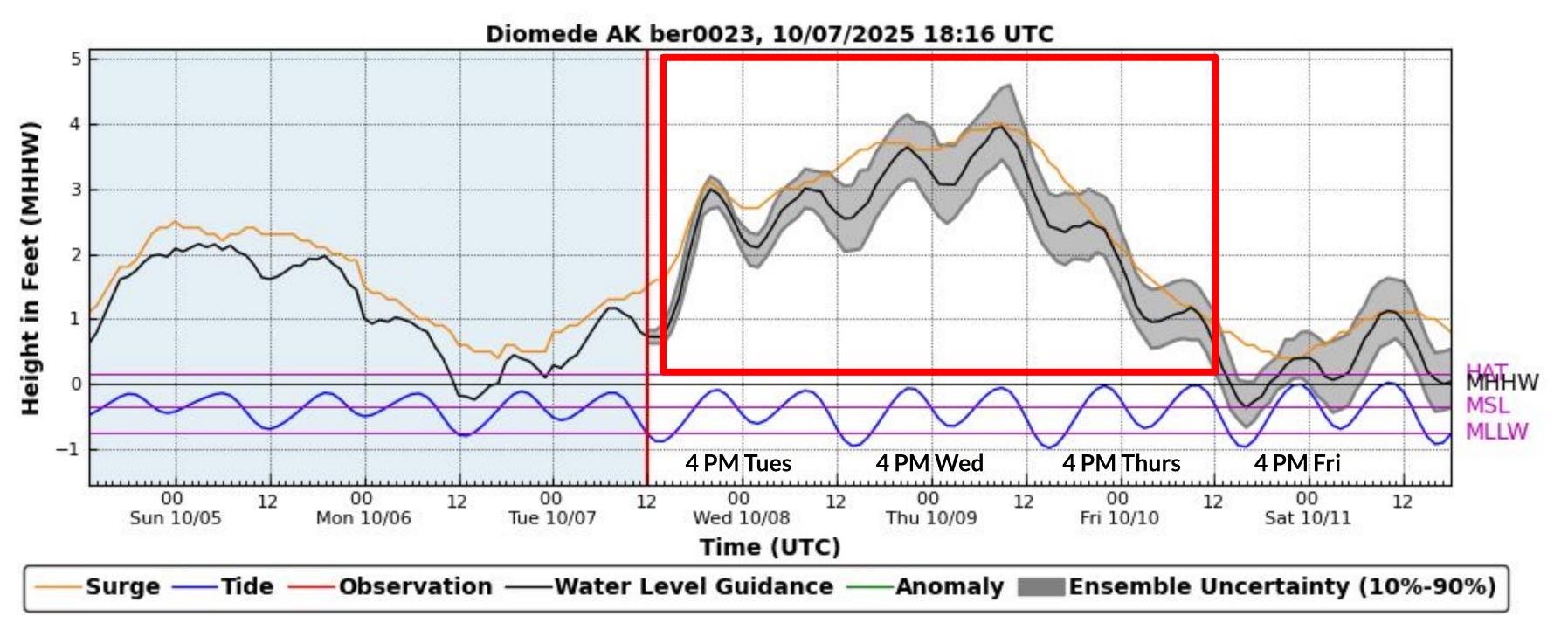
Water levels: 3-5 feet above the normal highest tide line for Diomede

<u>Timing:</u> The highest water levels will occur late Wednesday morning into early Thursday morning

Winds: South/southwest gusts up to 50 mph Wednesday morning and afternoon then dropping off



- Multiple High Tides
- Highest Water levels between Tuesday night and Thursday night



Coastal Flood Advisory

IMPACTS:

- Wave run up will push water levels higher on the beach side of town
- The lagoon will fill with water, and water may surround most buildings along Pinguk Ave.
- Other low lying areas such as Clarence Road near the lagoon will also be inundated

What to Expect:

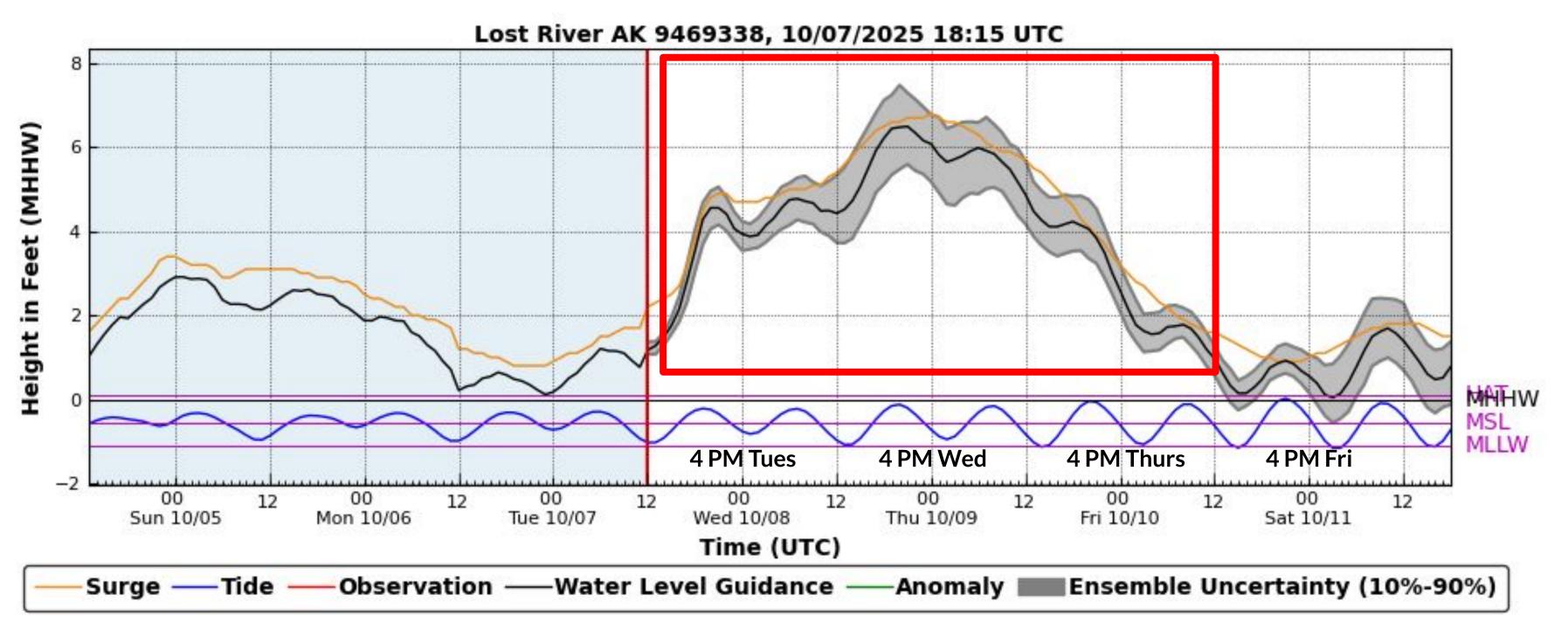
Water levels: 5-7 feet above the normal highest tide line for Brevig Mission

<u>Timing:</u> The highest water levels will occur Tuesday night through Thursday morning

Winds: South/southwest gusts up to 55 mph Wednesday morning and afternoon then dropping off



- Multiple High Tides
- Highest Water levels between Tuesday night and Thursday night



Coastal Flood Advisory

IMPACTS:

- Portions of Front Ave may be flooded.
- Grantly Harbor Store, AVEC fuel, and Teller Fish & Meat will likely flood
- High water in the lake will flood buildings in the SE portion of town
- All materials near the lake, harbor, or coastal shorelines should be brought to higher ground

What to Expect:

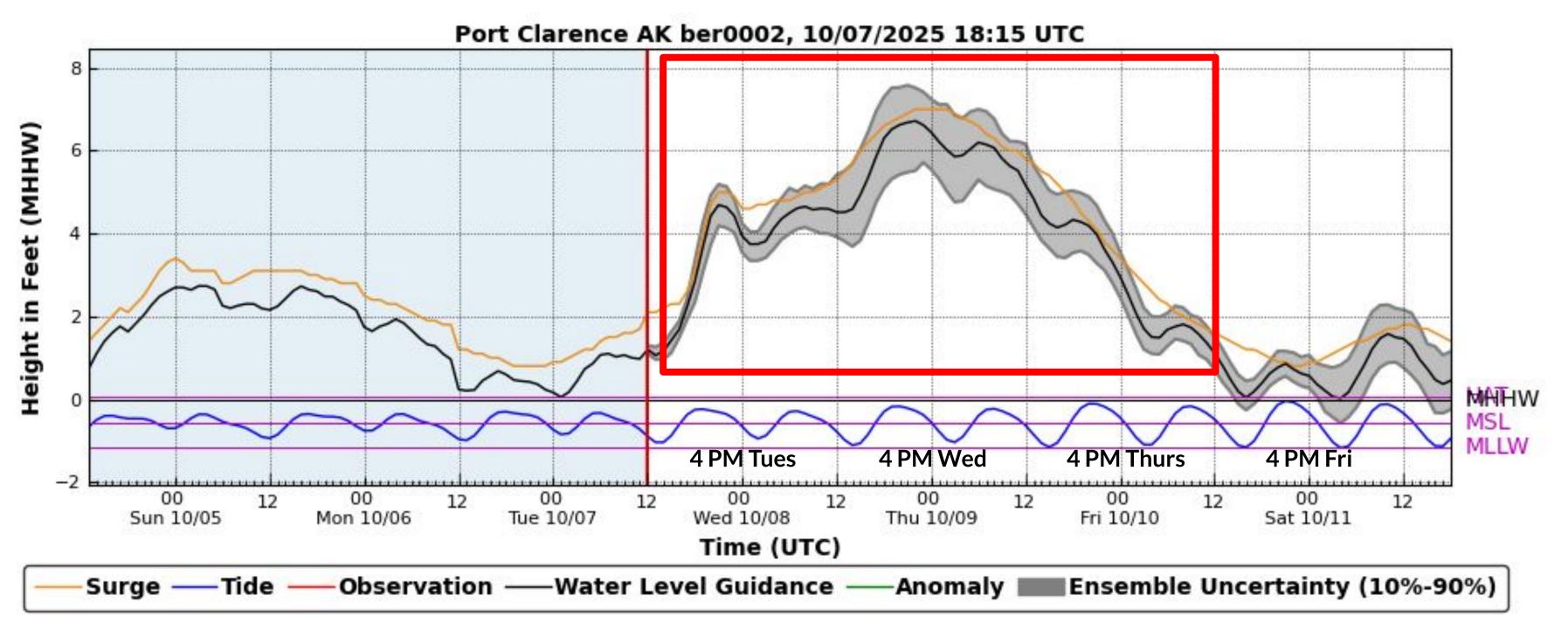
Water levels: 5-8 feet above the normal highest tide line for Teller

Timing: The highest water levels will occur Tuesday night through Thursday morning

Winds: South/southwest gusts up to 55 mph Wednesday morning and afternoon then dropping off



- Multiple High Tides
- Highest Water levels between Tuesday night and Thursday night



IMPACTS:

- Homes in the Belmont Subdivision and areas near the port will be inundated
- Water will approach Norton Sound Seafood Products
- Water may cut off access between the tarmac and airport terminal
- Nome-Council Road may become impassable.
- Debris on front street may be possible.

What to Expect:

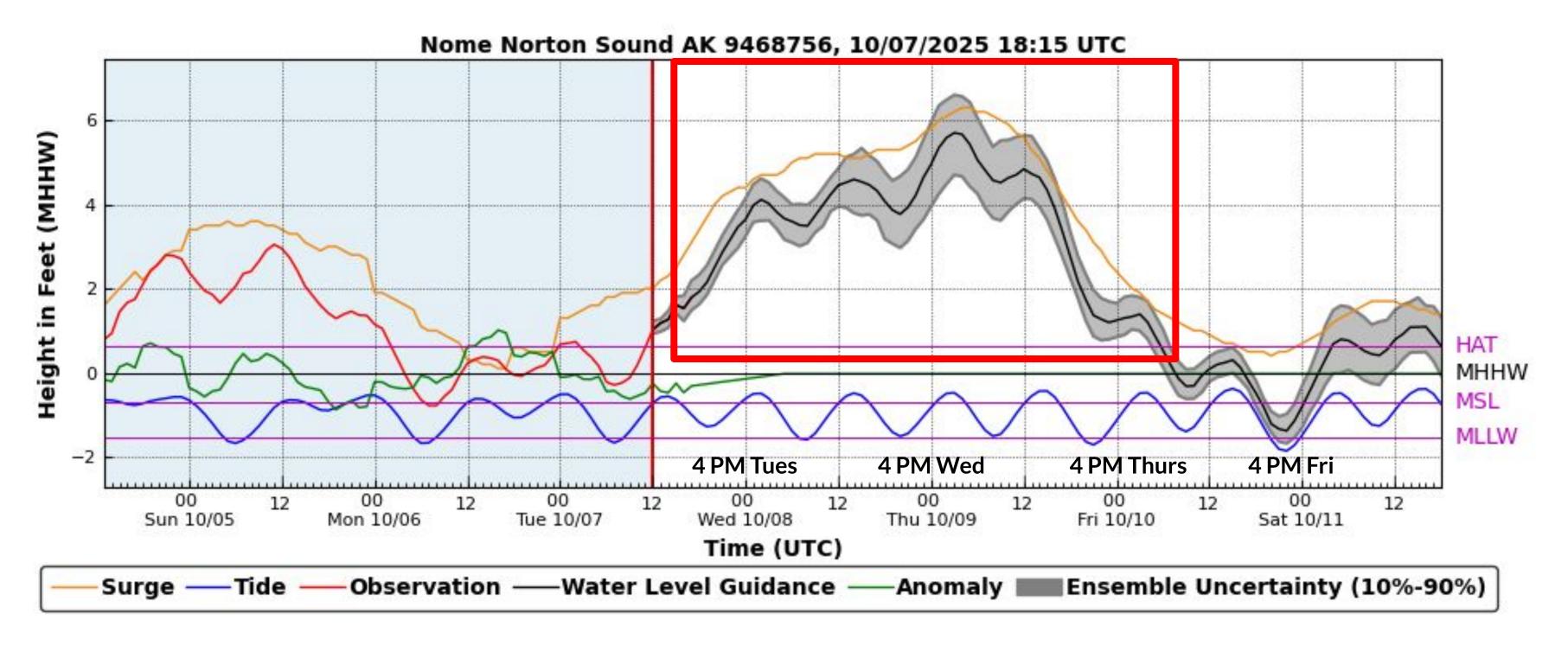
Water levels: 4-7 feet above the normal highest tide line

Timing: The highest water levels will occur early Wednesday evening

Winds: Southerly gusts up to 40 mph Tuesday morning becoming southwest/westerly gusts up to 45 mph Wednesday afternoon then dropping off



- Multiple High Tides
- <u>Highest Water levels between Tuesday</u> <u>afternoon through Thursday morning</u>



IMPACTS:

- Significant erosion
- Old runway will likely get overtopped
- Many residences, school, power plant, tank farm, store, clinic and more may be inundated or surrounded by water

What to Expect:

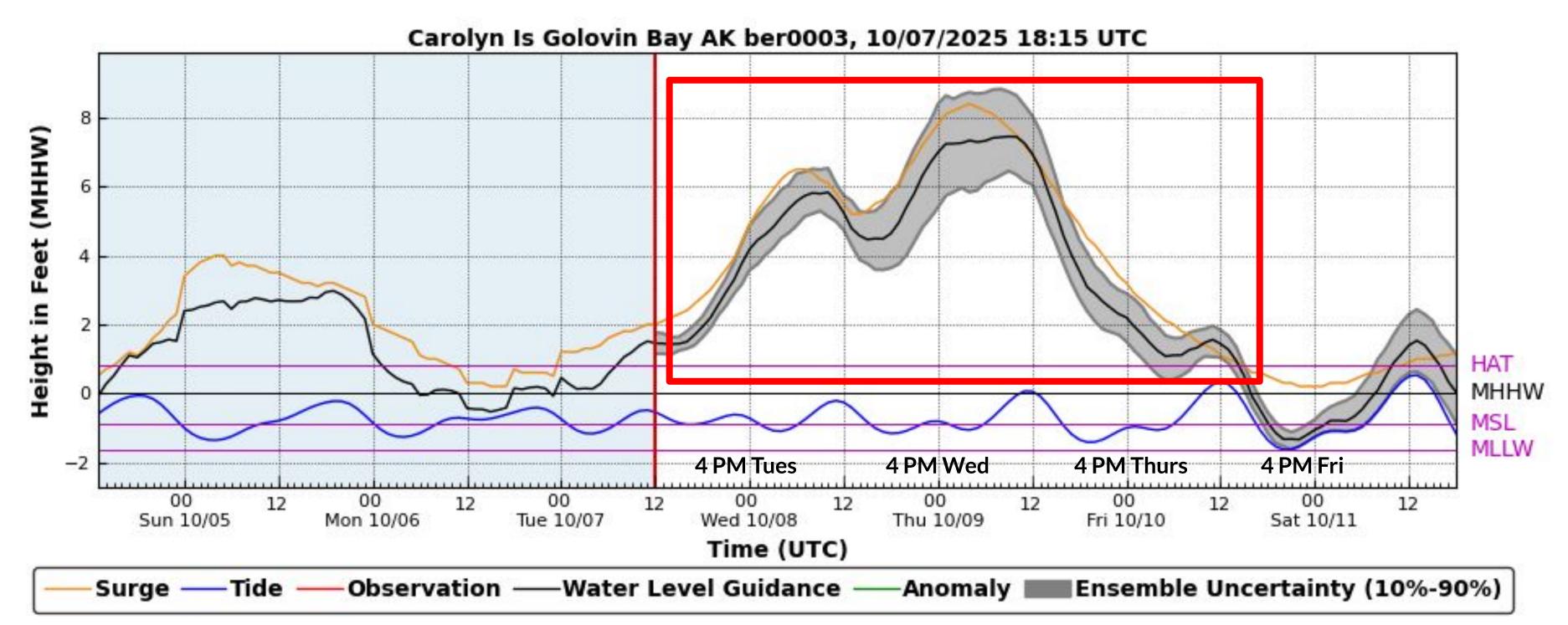
Water levels: 6-9 feet above the normal highest tide line.

Timing: The highest water levels will be Wednesday evening through late Wednesday night, then drop through Thursday.

Winds: South-southwest gusts up to 45 mph Tuesday morning through Wednesday night.



- Multiple High Tides
- Highest Water levels between Wednesday morning and Thursday morning



Coastal Flood Advisory

IMPACTS:

- No flooding is expected in Elim
- Significant erosion will likely occur

What to Expect:

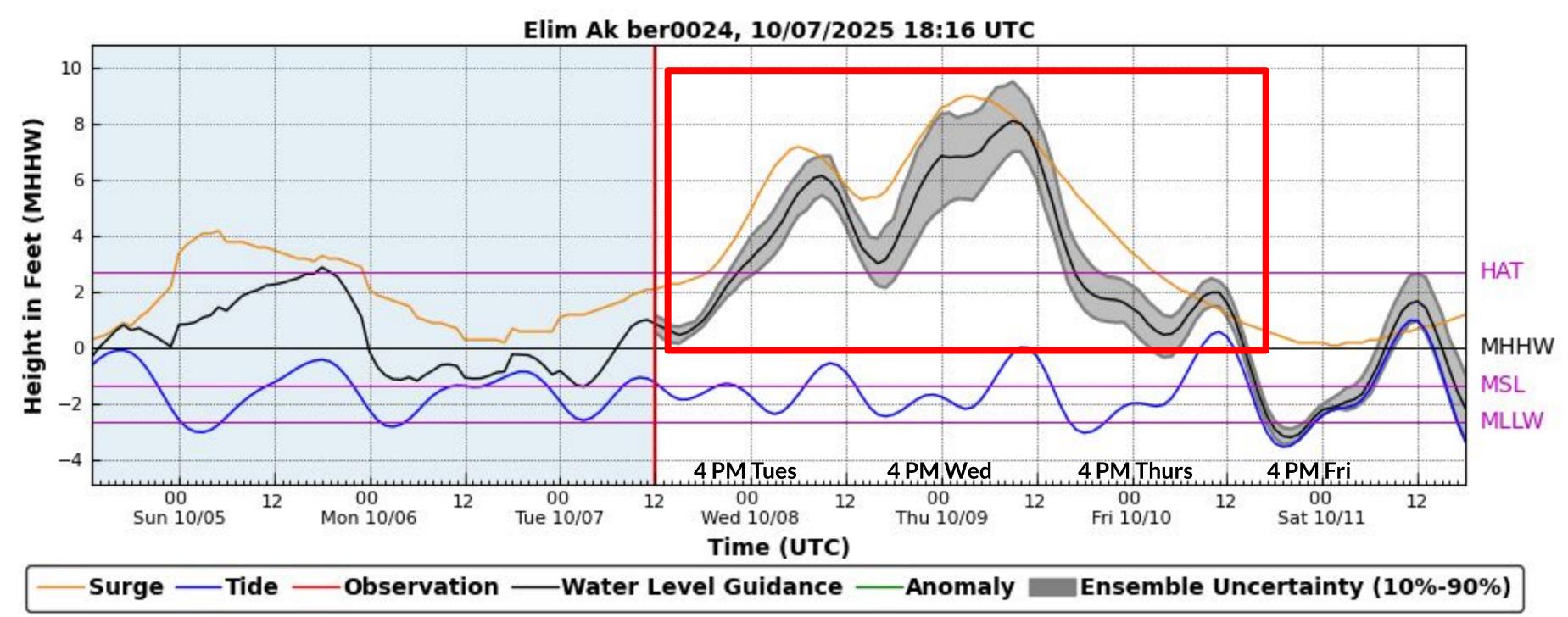
Water levels: 7 to 10 feet above the normal high tide line.

Timing: The highest water levels will occur Wednesday afternoon into Thursday morning.

Winds: Southerly wind with gusts up to 40 mph



- Multiple High Tides
- Highest Water levels between Wednesday afternoon and Thursday morning



Coastal Flood Advisory

IMPACTS: (Shaktoolik)

- The airstrip will be closed
- Waves will push water higher than the normal high tide line on the beach side of town
- Materials near the coastline and near the shore of the lagoon should be brought to higher ground
- High water may surround some buildings near the beach of the inlet

What to Expect:

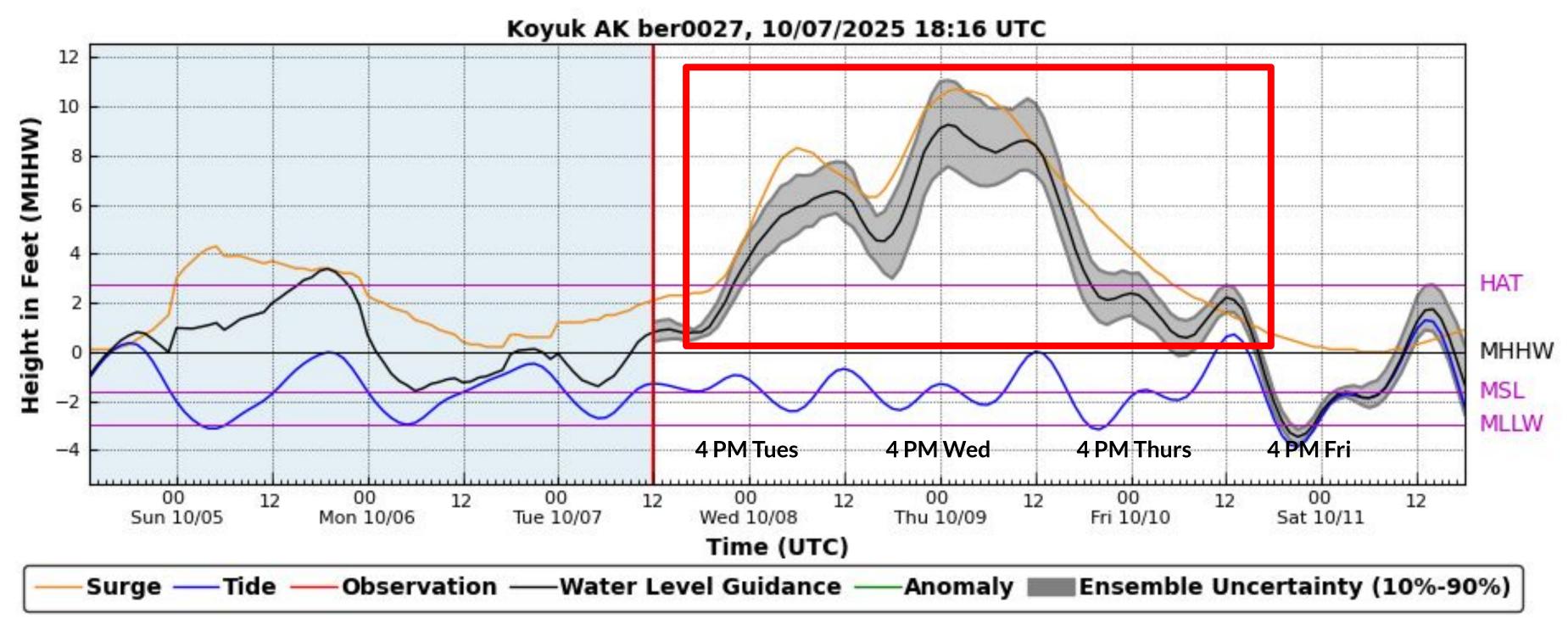
Water levels: 7-11 feet above the normal highest tide line for Koyuk and 7-10 feet for Shaktoolik

Timing: The highest water levels will occur Wednesday afternoon into Thursday morning

Winds: Southerly gusts up to 40 mph Tuesday morning becoming southwesterly with gusts picking up in Shaktoolik to 50 mph Wednesday afternoon then dropping off

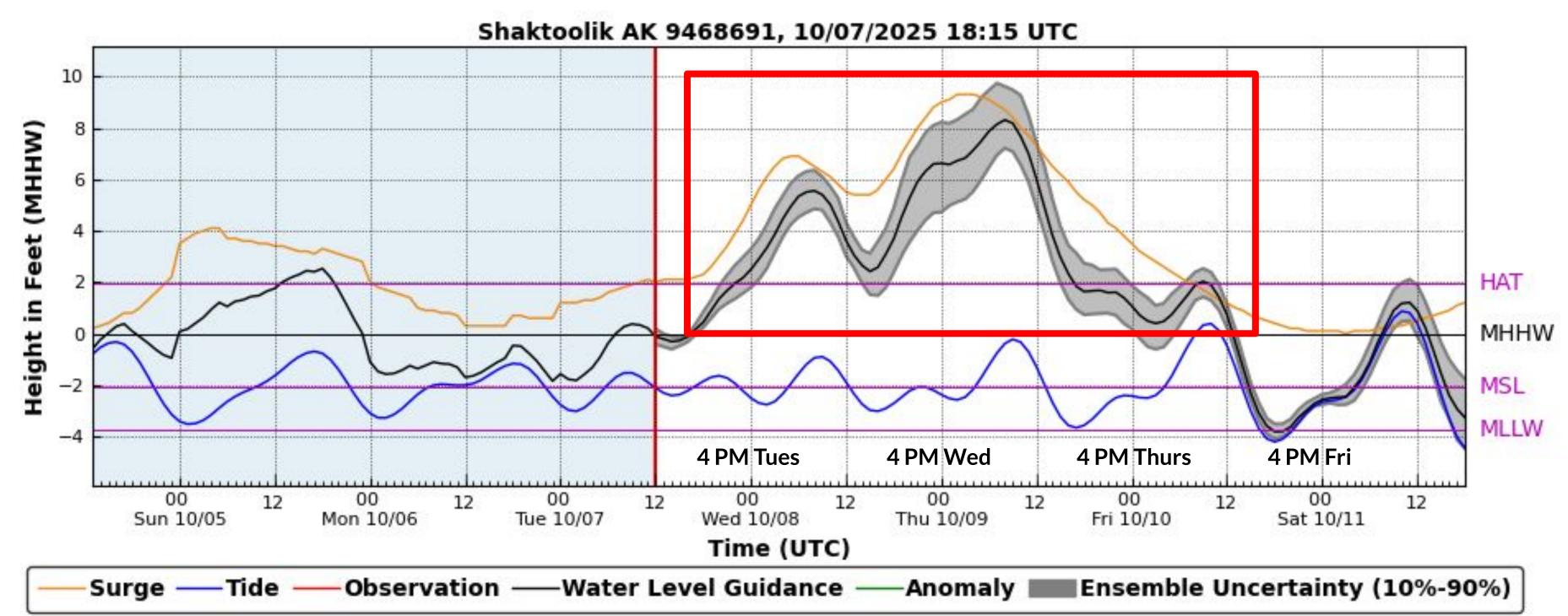


- Multiple High Tides
- <u>Highest Water levels between Wednesday</u> <u>afternoon and Thursday morning</u>





- Multiple High Tides
- Highest Water levels between Wednesday afternoon and Thursday morning



Coastal Flood Advisory

IMPACTS:

- Storm surge and wave run-up will push water up the beach and up riverbanks much further than normal
- The United utilities and AT&T Alascom sites near Beach Rd may flood
- The AC Store and other buildings close to the riverbank will likely flood as well

What to Expect:

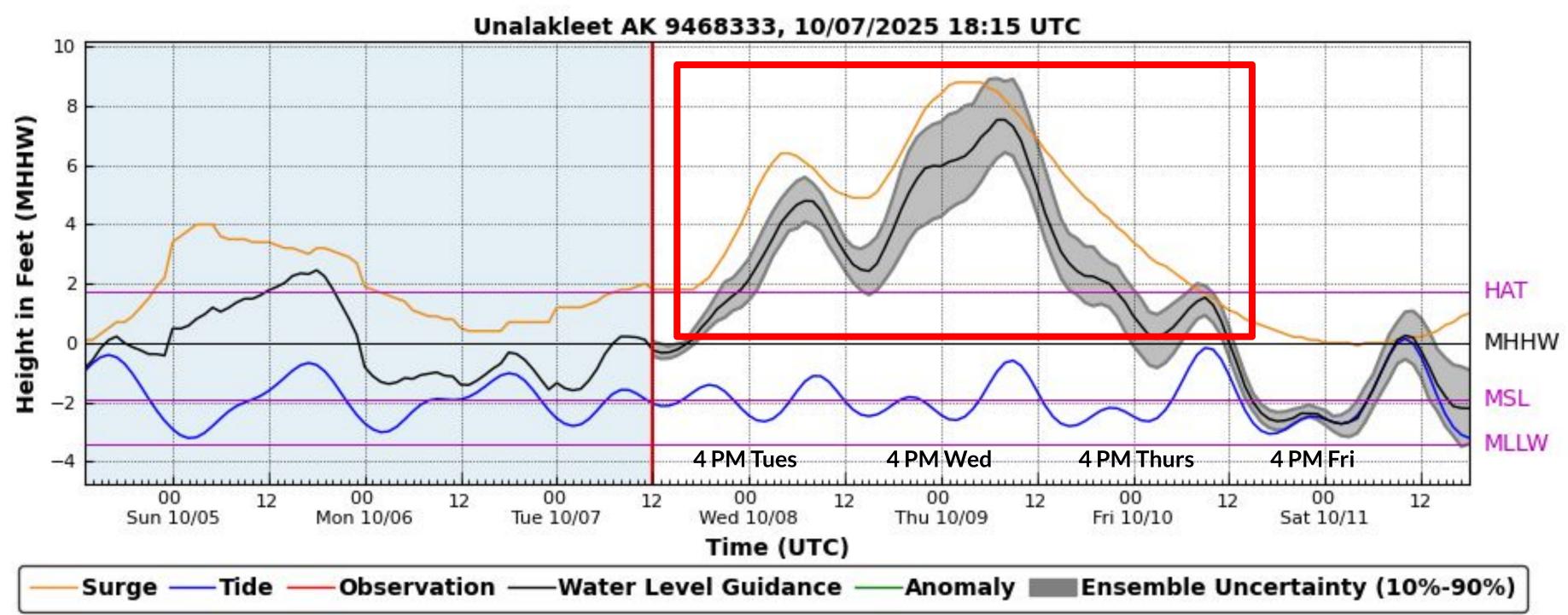
Water levels: 6-9 feet above the normal highest tide line

<u>Timing:</u> The highest water levels will occur late Wednesday evening into early Thursday morning

Winds: Southerly gusts up to 40 mph Tuesday morning through Wednesday evening becoming southwesterly Wednesday morning



- Multiple High Tides
- <u>Highest Water levels between Wednesday</u> <u>afternoon and Thursday morning</u>





IMPACTS:

- The north side near the shore, as well as the Native Store and Fuel Tanks may be impacted.
- Significant erosion.

What to Expect:

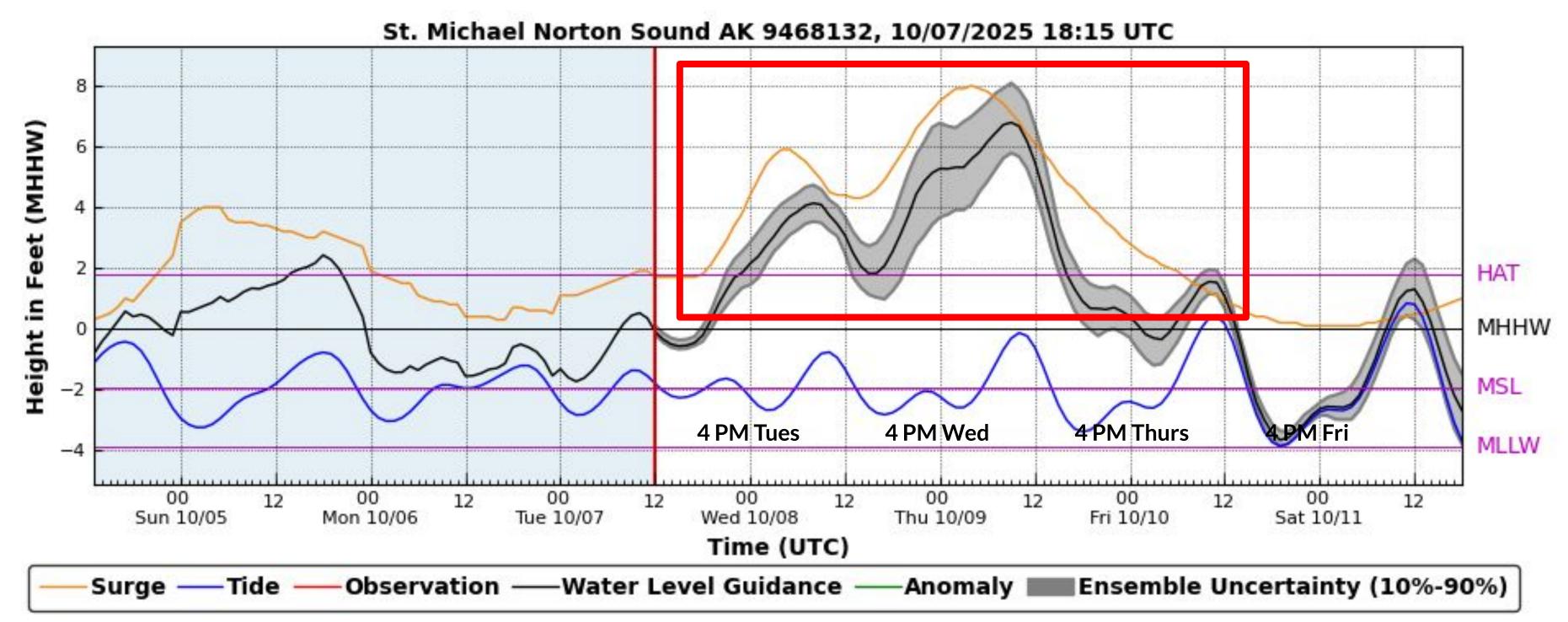
Water levels: 6-8 feet above the normal highest tide line for St. Michael and 7-9 feet above the normal highest tide line for Stebbins

Timing: The highest water levels will occur late Wednesday evening into early Thursday morning

Winds: South/southwest winds gusting to 45 mph Tuesday morning through Thursday afternoon.

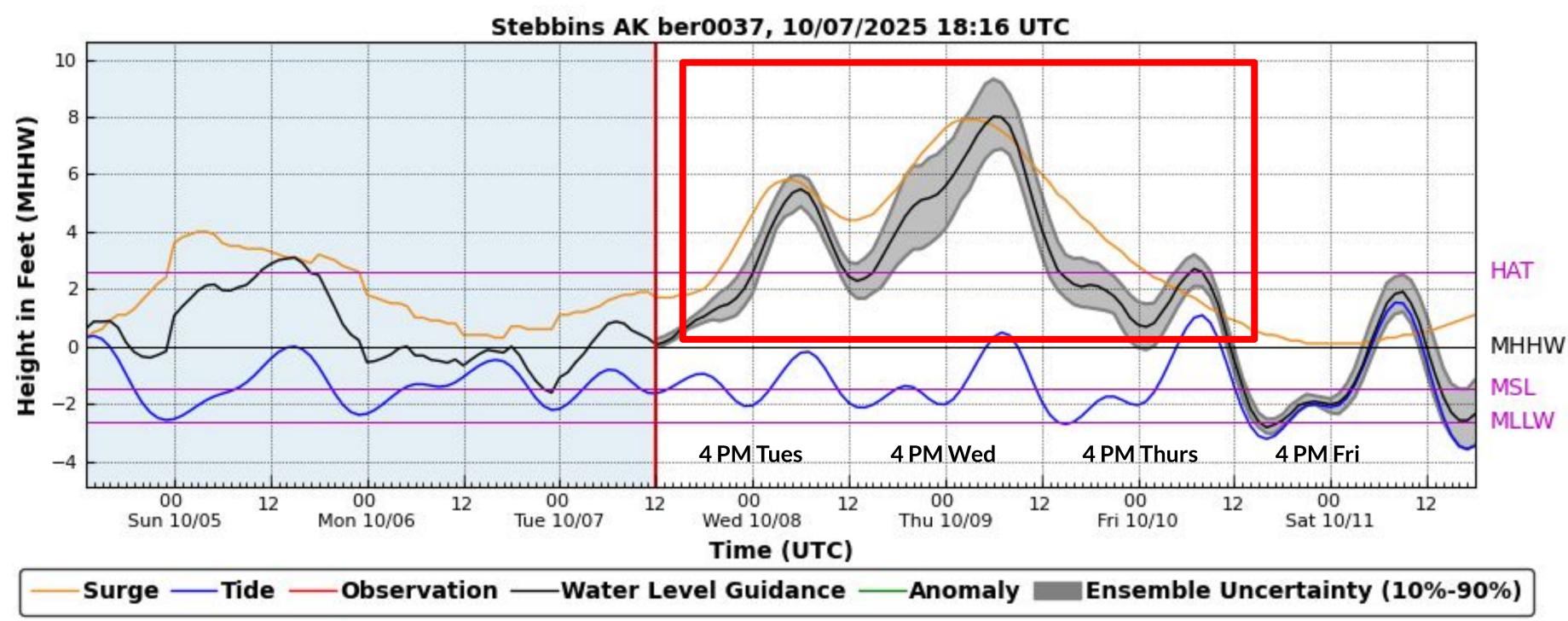


- Multiple High Tides
- Highest Water levels between Wednesday afternoon and early Thursday morning





- Multiple High Tides
- Highest Water levels between Wednesday afternoon and early Thursday morning



IMPACTS:

- Significant erosion is ongoing.
- Water will back up in the river at Kotlik.
- Flooding will occur around houses in low-lying areas.

What to Expect:

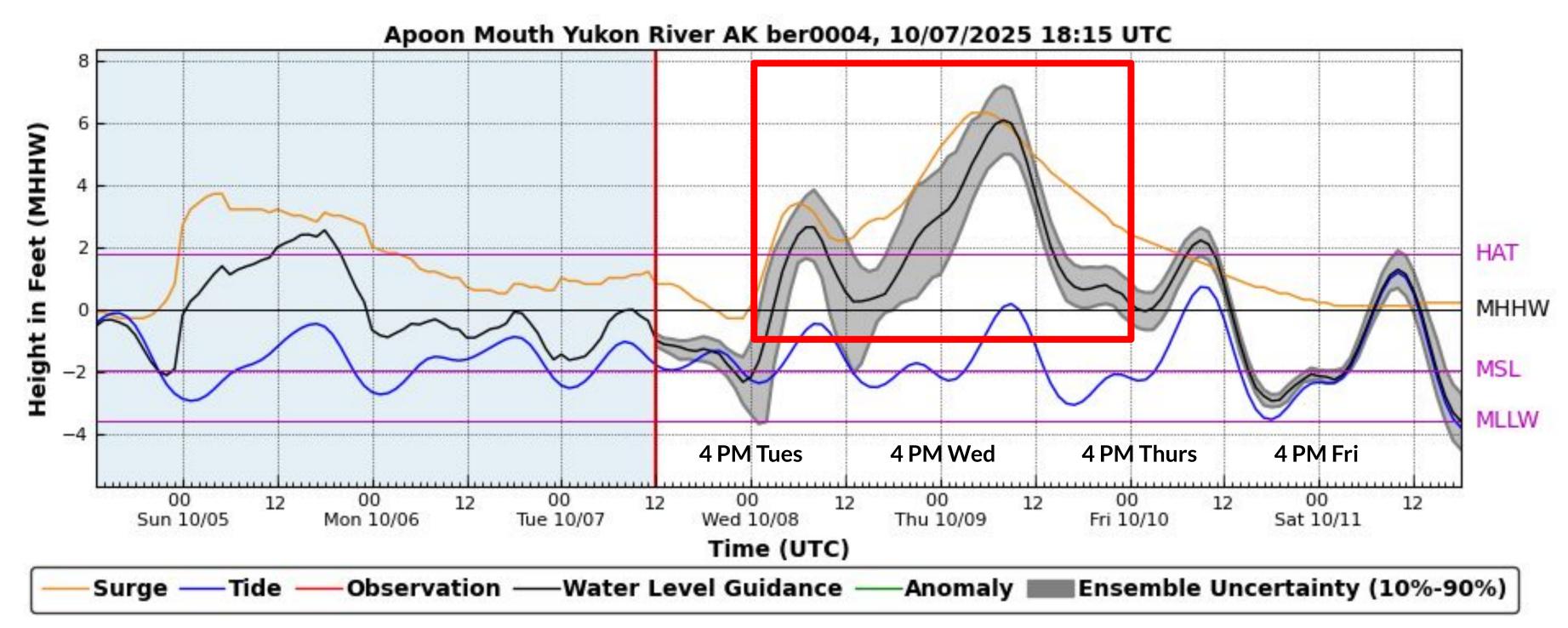
Water levels: 5 to 7 feet above the normal highest tide line

Timing: The highest water levels will occur Wednesday afternoon and evening

Winds: South/southwesterly gusts up to 45 mph Tuesday morning and remaining gusty through Wednesday morning



- Multiple High Tides
- Highest Water levels between Wednesday
 Afternoon and early Thursday morning



IMPACTS:

- This is a MAJOR FLOOD EVENT!!
- Most, if not all of Nunam Iqua will be inundated

What to Expect:

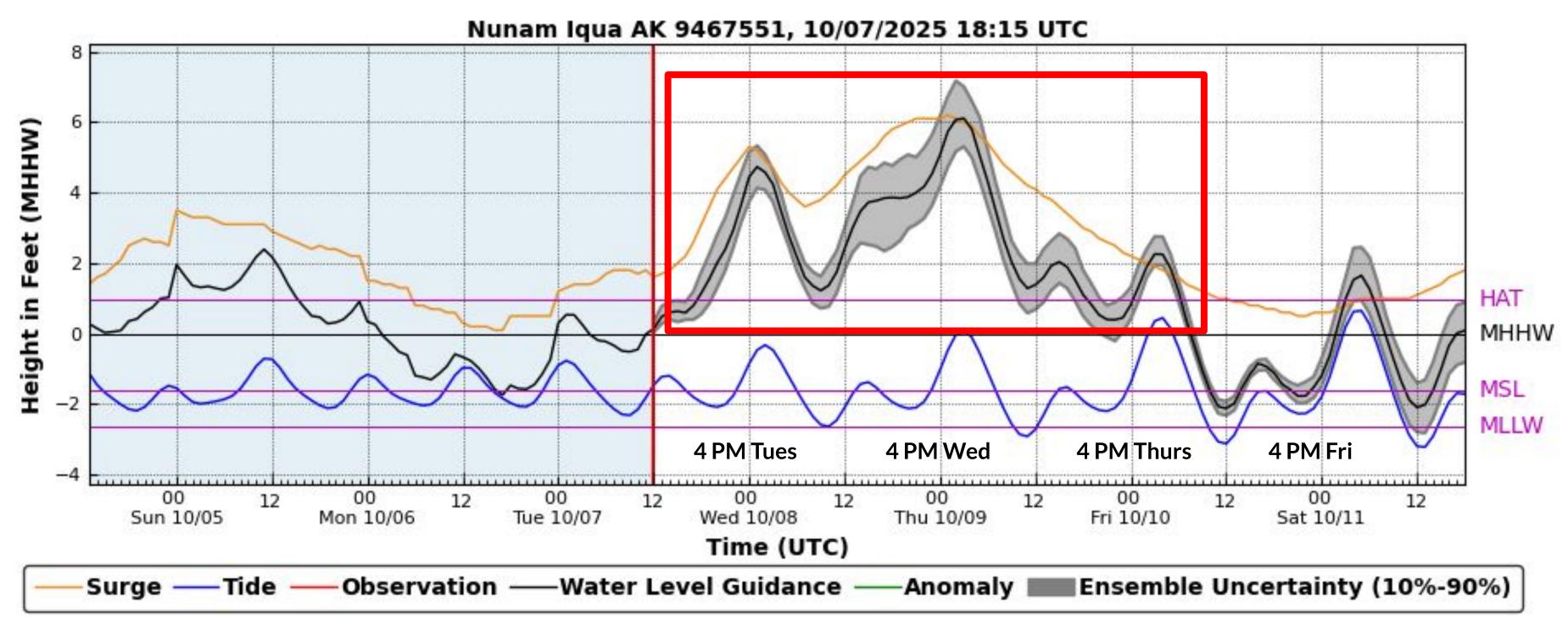
Water levels: 5-7 feet above the normal highest tide line

<u>Timing:</u> The highest water levels will occur Wednesday afternoon and evening

Winds: South/southwesterly gusts up to 45 mph Tuesday morning and remaining gusty through Wednesday morning



- Multiple High Tides
- Highest Water levels between Tuesday morning and Wednesday night



IMPACTS:

- This is a MAJOR FLOOD EVENT!!
- Hooper Bay fuel storage may be inundated and the road to the airport may be partially submerged.
- Water is likely to reach into the village.

What to Expect:

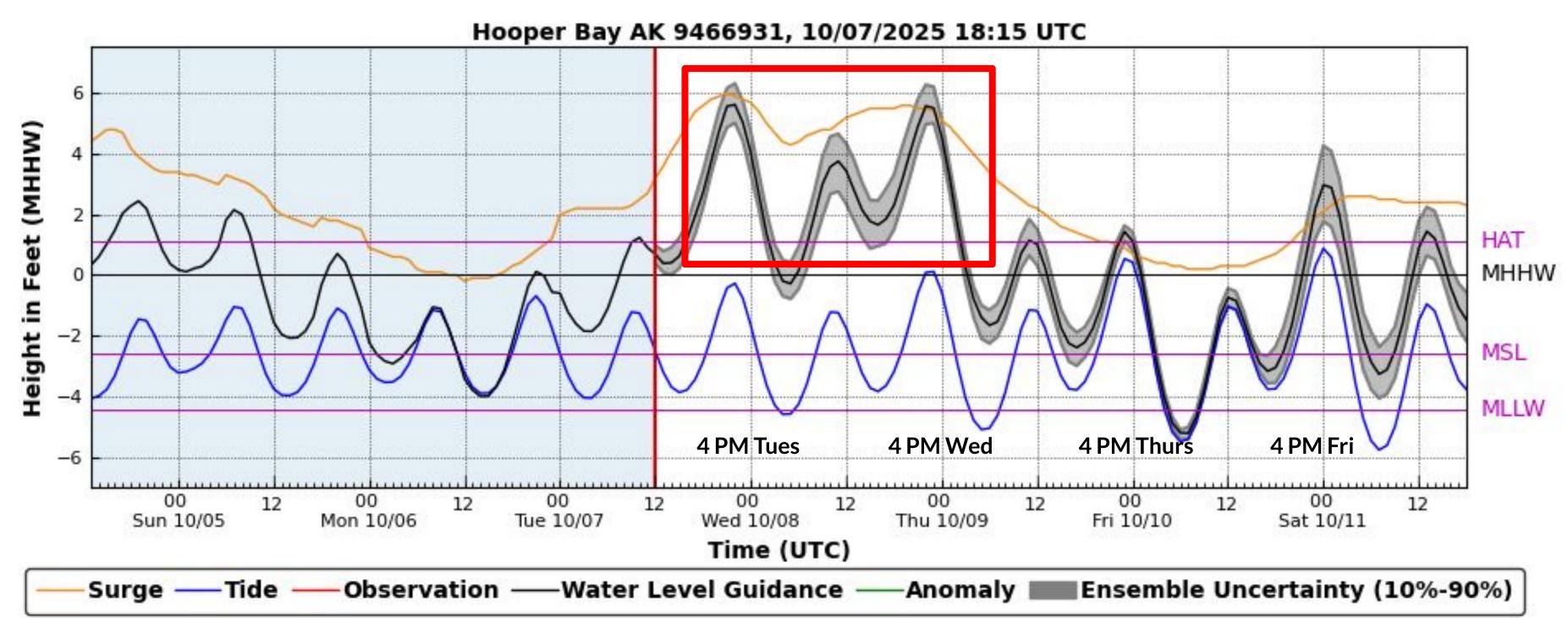
Water levels: 4-6 feet above the normal highest tide line

Timing: The highest water levels are expected to be from Tuesday morning through Wednesday afternoon

Winds: Winds will mostly be out of the southwest, around 40 mph, during this event, with the strongest gusts up to 65 mph Tuesday morning



- Multiple High Tides
- Highest Water levels between Tuesday morning and Wednesday night



IMPACTS:

- Water backs up in the Kun River and floods the west end of the runway and adjacent low lying areas.
- Significant erosion is ongoing.

What to Expect:

Water levels: 4-7 feet above the normal highest tide line

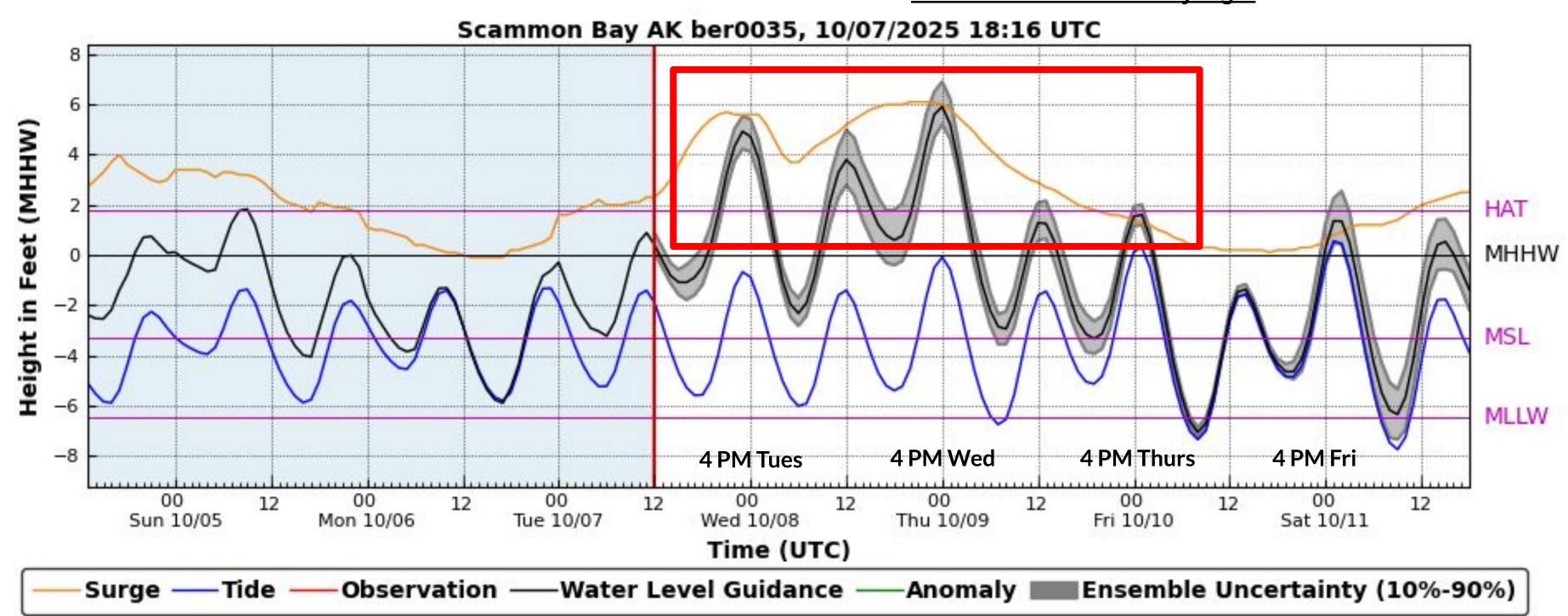
Timing: The highest water levels are expected to be from Tuesday afternoon through Wednesday night

Winds: Winds will mostly be out of the south/southwest with gusts to 50 mph. But occasional gusts up to 60 mph at times through late tonight.



Water Level Heights - Scammon Bay

- **Multiple High Tides**
- **Highest Water levels between Tuesday** afternoon and Wednesday night



IMPACTS:

- High water moving up the Ninglikfak River.
- Erosion is expected.

What to Expect:

Water levels: 4-6 feet above the normal highest tide line

Timing: The highest water levels are expected to be from Tuesday morning through Wednesday afternoon

Winds: South/southwest winds gust to 45 mph through Thursday morning.



IMPACTS (Gambell):

- High water levels may cause flooding at the dump and will threaten the FAA Equipment, runway, and the community boat storage.
- Water levels up to 5 feet above the normal high tide line may impact the dump and bring water towards Gambell on the west side. Significant erosion is likely to occur as well.

What to Expect:

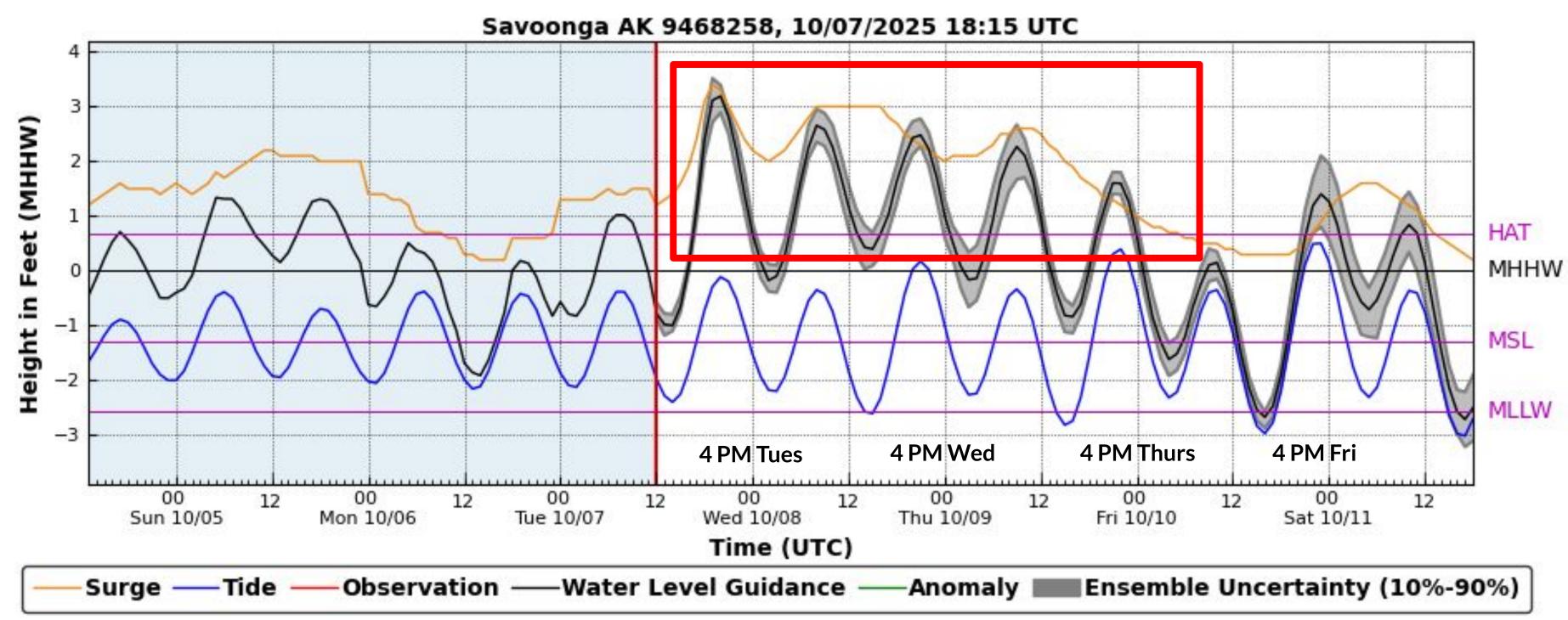
Water levels: 2-4 feet above the normal highest tide line for Savoonga and 2-5 feet above the normal highest tide line for Gambell

Timing: The highest water levels are expected to be from Tuesday morning through Wednesday afternoon

Winds: Winds will mostly be out of the southwest, around 40 to 50 mph, during this event, with the strongest gusts up to 70 mph Tuesday morning

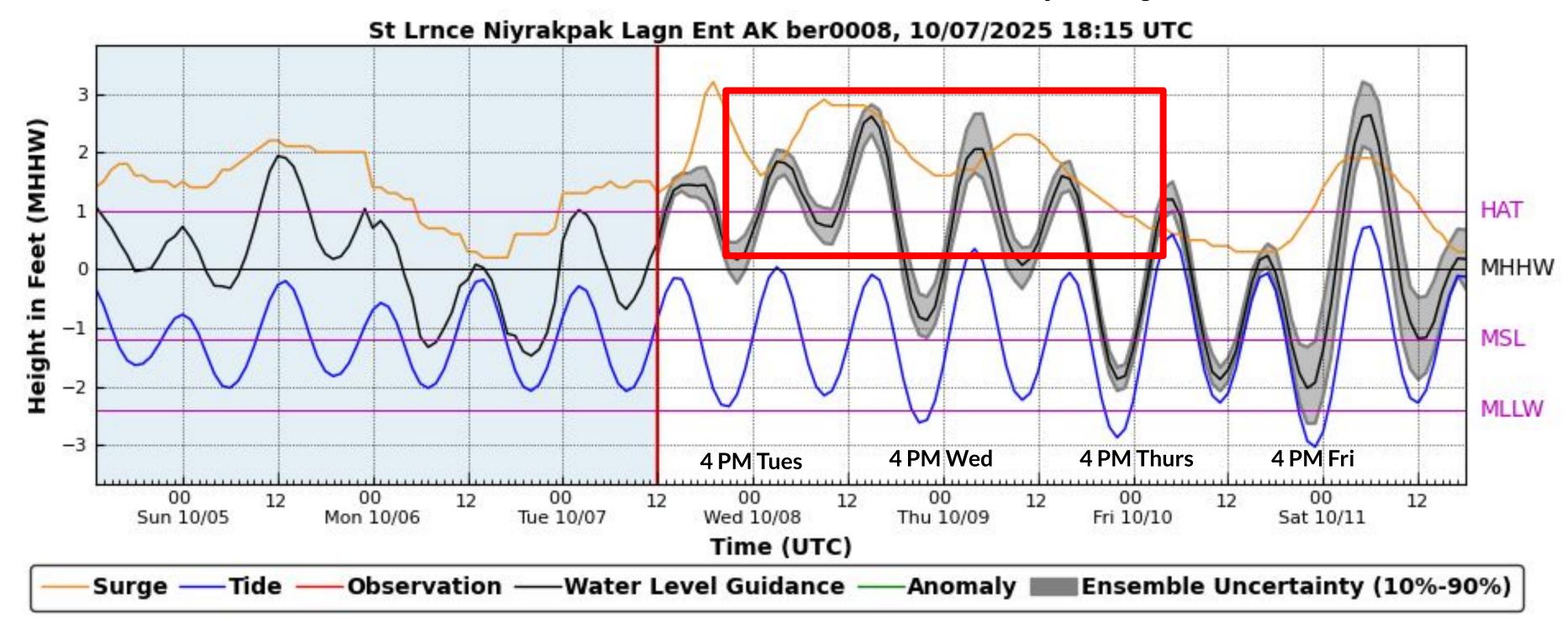


- Multiple High Tides
- Highest Water levels between Tuesday morning and Wednesday night



NOTE: This site is not located in Gambell, it is in the Inlet on the east side.

- Multiple High Tides
- Highest Water levels between Tuesday night and Thursday morning



- There will be a mostly dry break with water levels near normal today, NOW is your time to prepare.
- The low will move through the Gulf of Anadyr around 960 millibars.
- Coastal Flood Warnings and Advisories are now issued.
- Significant coastal flooding and erosion is likely Tuesday Thursday.
 - Wind gusts are expected to reach as high as 60 to 70 mph in some locations.
 - Heavy rain is possible throughout the West Coast and Western Interior.