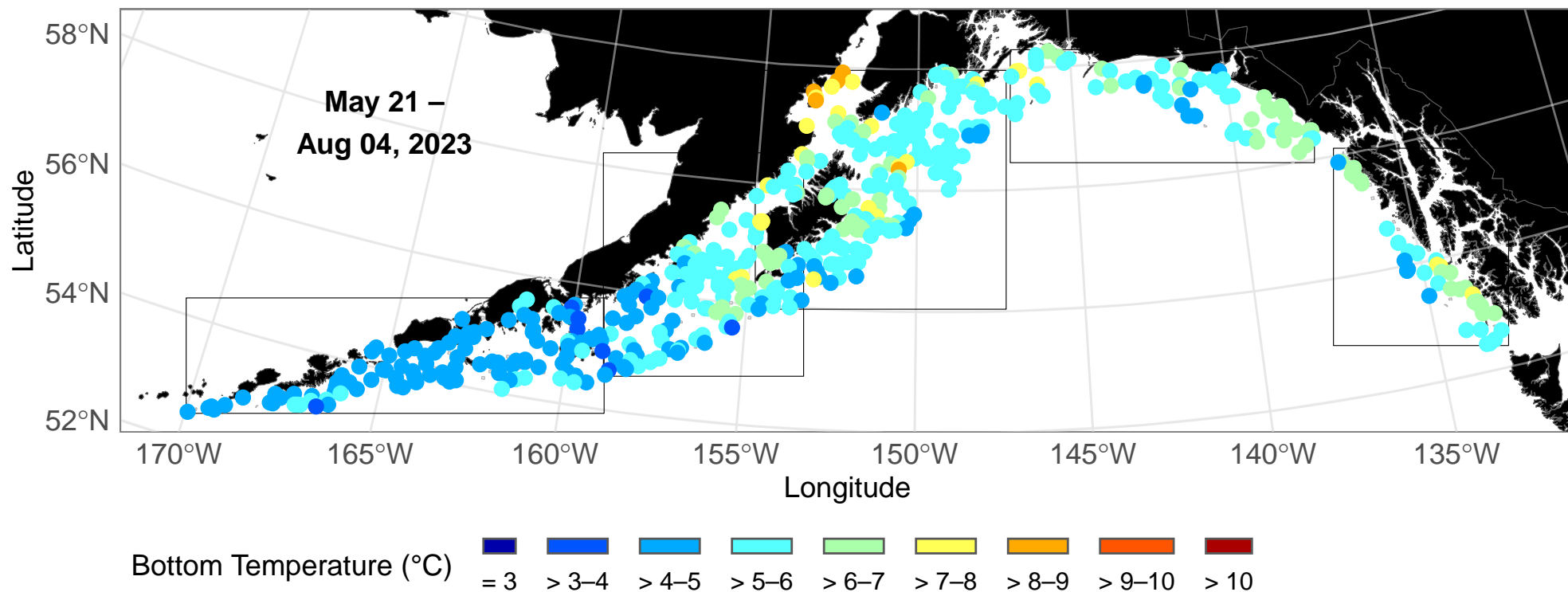


## 2023 Bottom Temperature (°C)

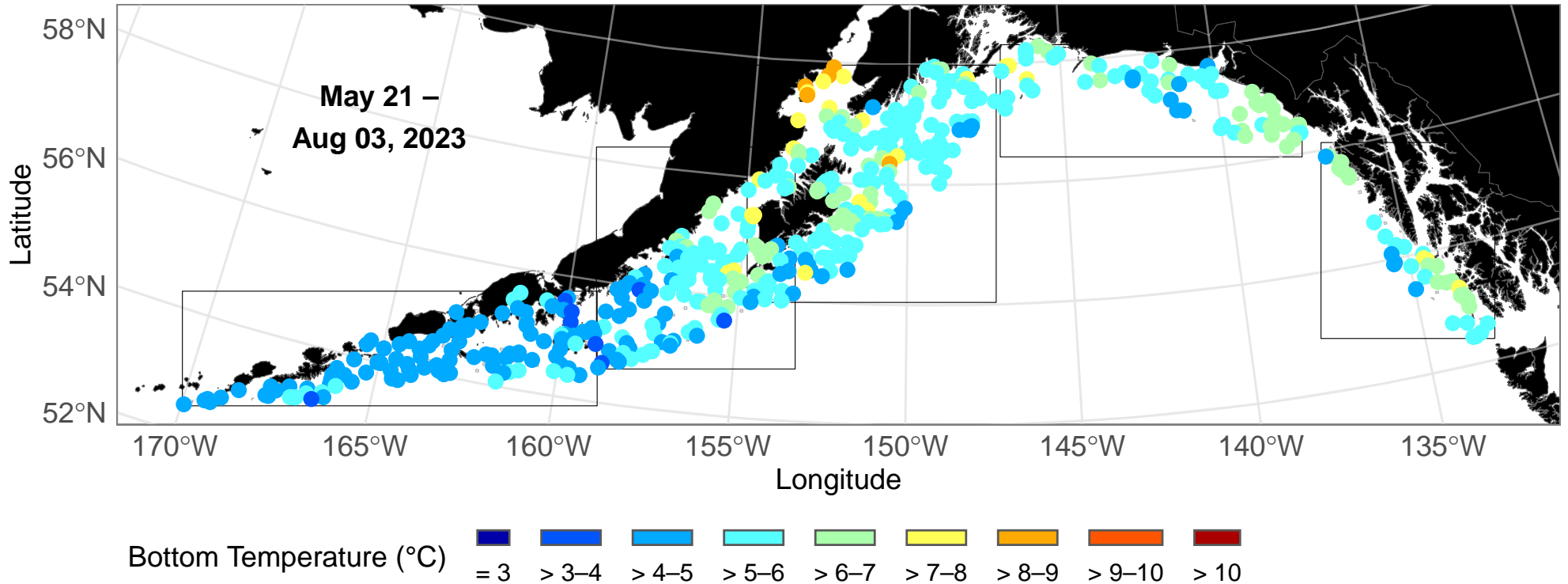
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-August 4. On August 4, a station 445-63 (54.92°N, -133.23°W; >6–7°C) was surveyed by the F/V *Alaska Provider*. No stations were surveyed by the F/V *Ocean Explorer*. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

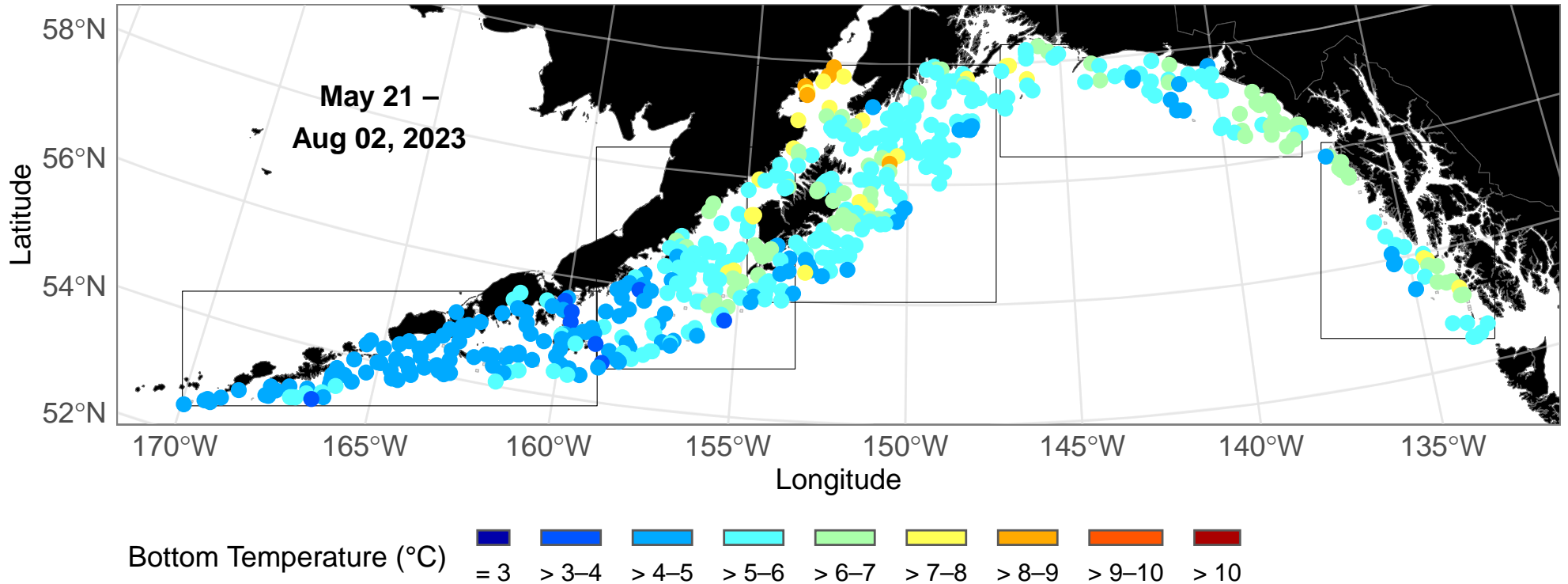
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-August 3. On August 3, stations 441-64 (54.96°N, -133.56°W; >6-7°C), 441-67 (55.09°N, -133.56°W; >6-7°C), 440-68 (55.13°N, -133.64°W; >6-7°C), and 441-66 (55.05°N, -133.56°W; >6-7°C) were surveyed by the F/V *Alaska Provider*. No stations were surveyed by the F/V *Ocean Explorer*. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

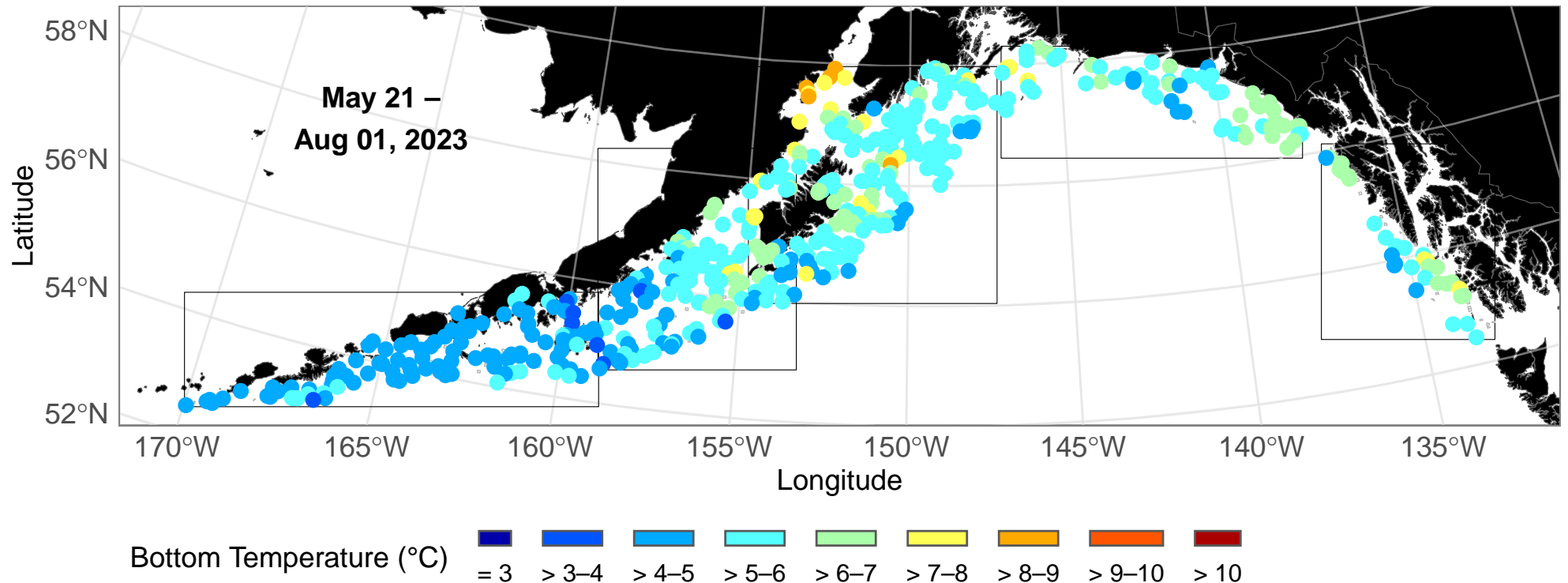
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–August 2. On August 2, stations 446–56 (54.62°N, -133.15°W; >5–6°C), 443–53 (54.5°N, -133.4°W; >5–6°C), and 440–52 (54.45°N, -133.64°W; >5–6°C) were surveyed by the *F/V Alaska Provider*. No stations were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

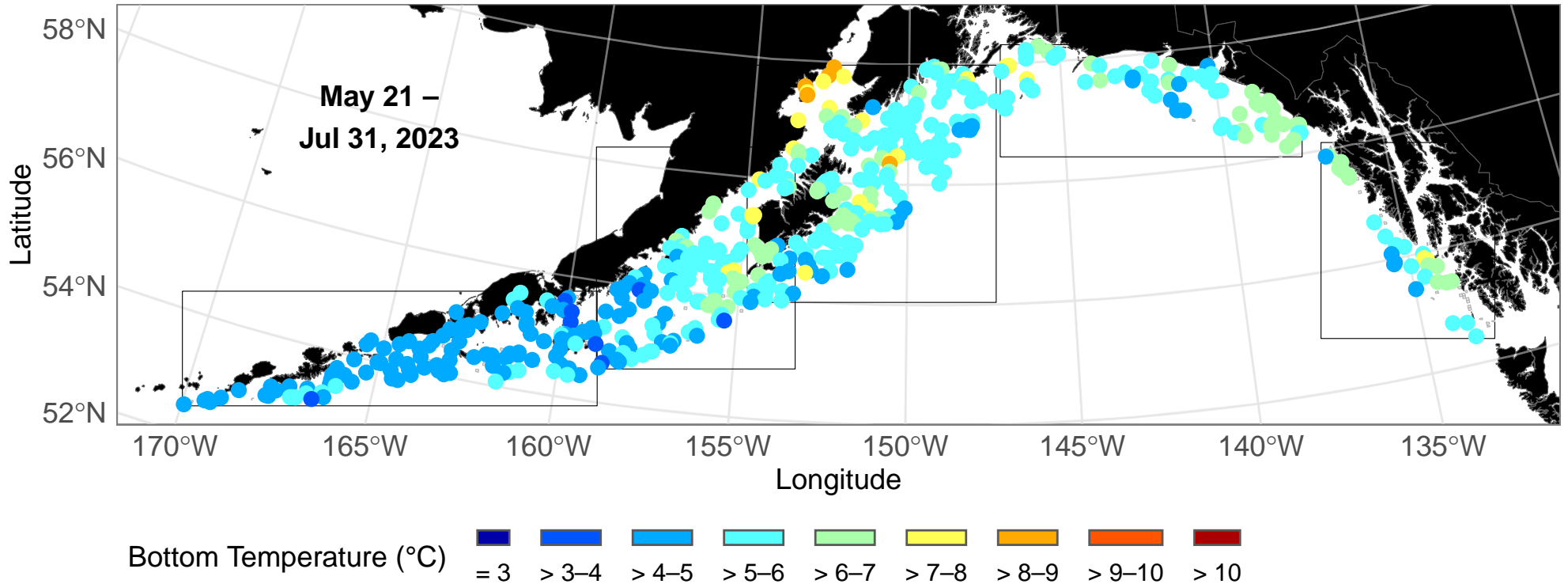
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-August 1. On August 1, stations 440-69 (55.18°N, -133.64°W; >6-7°C), 439-69 (55.18°N, -133.73°W; >6-7°C), and 439-72 (55.31°N, -133.72°W; >7-8°C) were surveyed by the F/V *Alaska Provider*. No stations were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

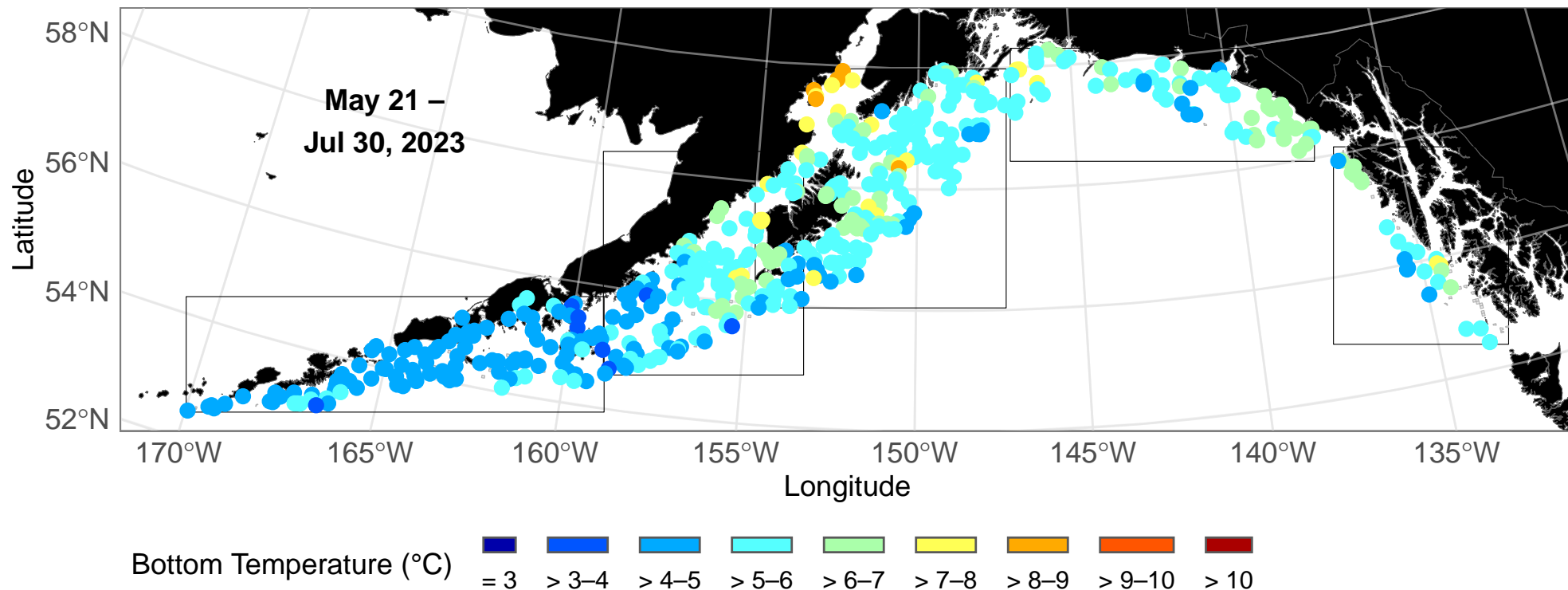
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–July 31. On July 31, stations 435-75 (55.43°N, -134.06°W; >6–7°C), 437-75 (55.44°N, -133.89°W; >6–7°C), and 433-82 (55.74°N, -134.22°W; >6–7°C) were surveyed by the *F/V Alaska Provider*. No stations were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

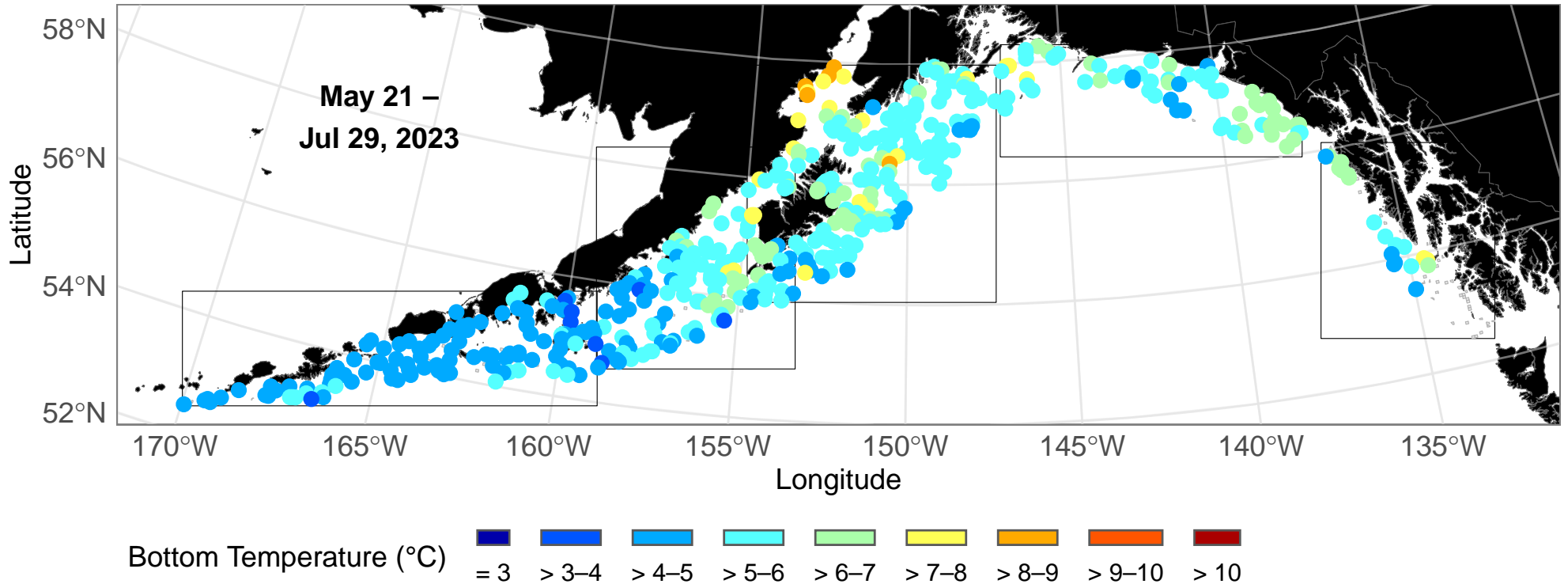
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 30. On July 30, stations 428-79 (55.61°N, -134.64°W; >5-6°C), 429-88 (55.99°N, -134.55°W; >5-6°C), and 432-76 (55.48°N, -134.31°W; >6-7°C) were surveyed by the *F/V Alaska Provider* and stations 434-59 (54.75°N, -134.13°W; >5-6°C), 441-52 (54.45°N, -133.56°W; >5-6°C), and 439-58 (54.71°N, -133.73°W; >5-6°C) were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

## 2023 Bottom Temperature (°C)

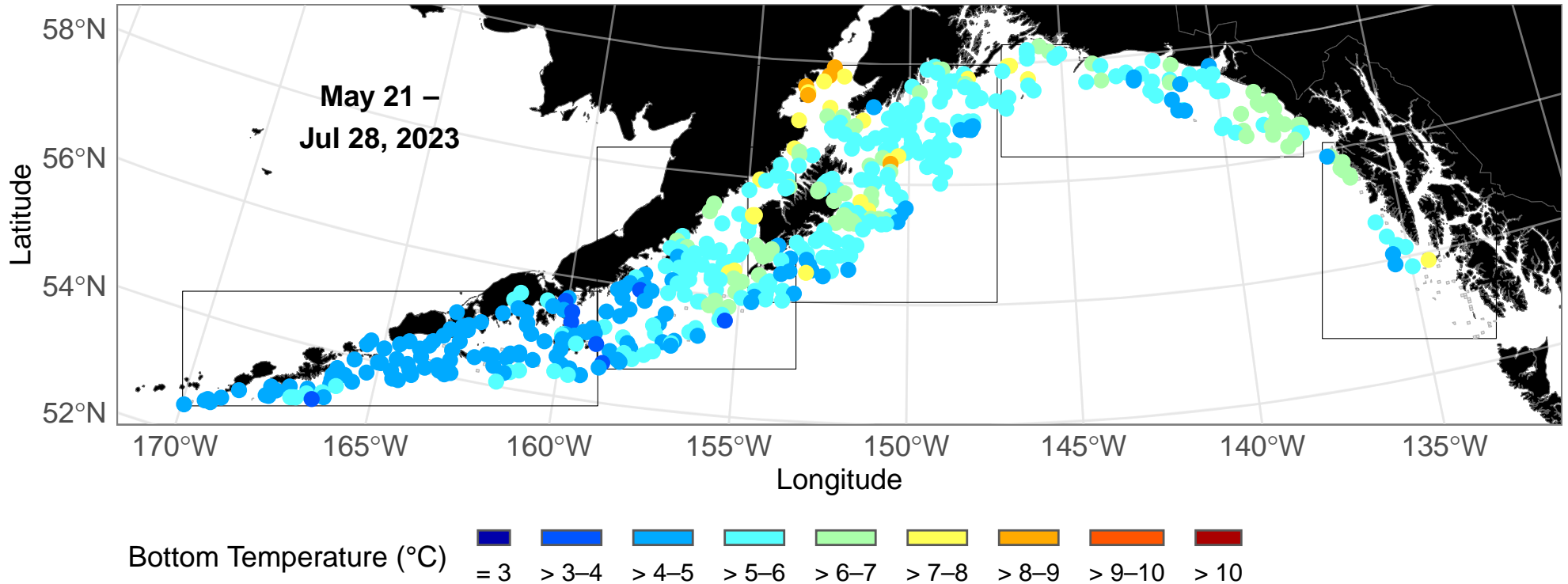
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 29. On July 29, stations 430-83 (55.78°N, -134.47°W; >6-7°C) and 429-86 (55.91°N, -134.55°W; >7-8°C) were surveyed by the F/V *Alaska Provider* and stations 419-87 (55.94°N, -135.42°W; >4-5°C) and 424-75 (55.44°N, -134.97°W; >4-5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

NOAA Fisheries Gulf of Alaska Bottom Trawl Survey

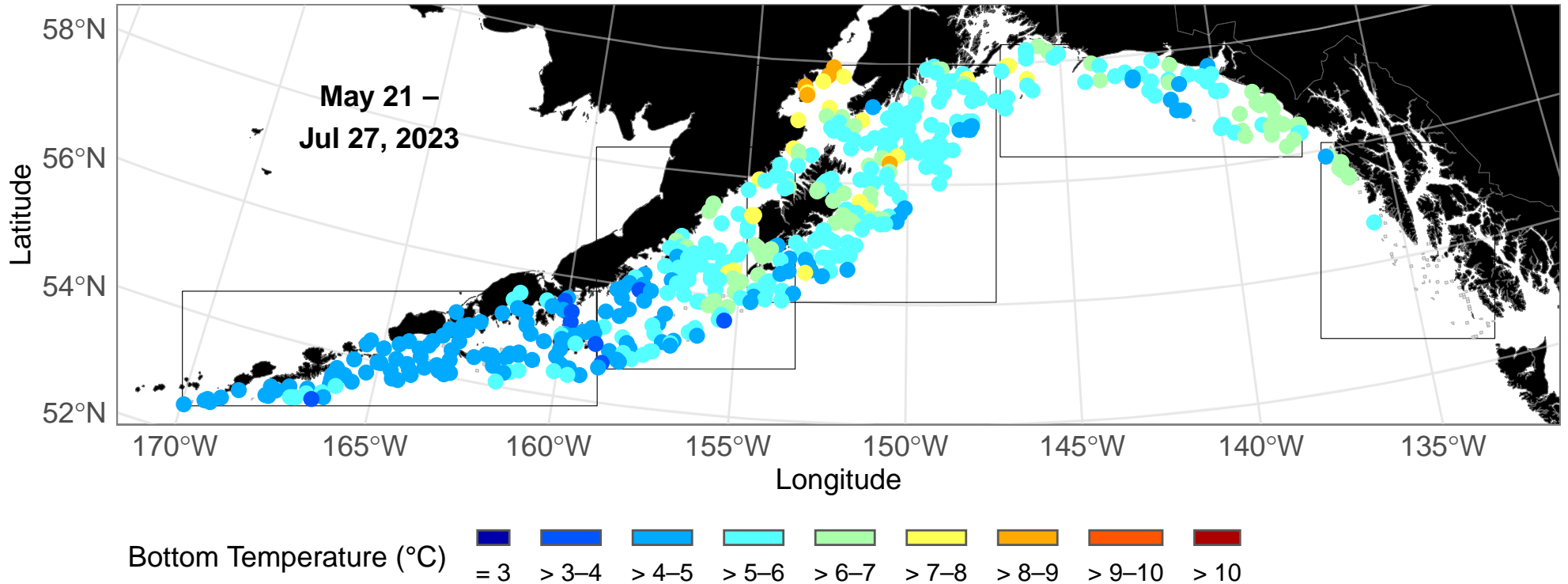


NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–July 28. On July 28, stations 418-86 (55.91°N, -135.45°W; >4–5°C), 424-84 (55.82°N, -134.97°W; >5–6°C), and 418-90 (56.09°N, -135.47°W; >4–5°C) were surveyed by the *F/V Alaska Provider* and stations 417-97 (56.4°N, -135.55°W; >5–6°C), 423-92 (56.16°N, -135.05°W; >5–6°C), 420-93 (56.22°N, -135.29°W; >5–6°C), and 430-85 (55.87°N, -134.47°W; >7–8°C) were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*



## 2023 Bottom Temperature (°C)

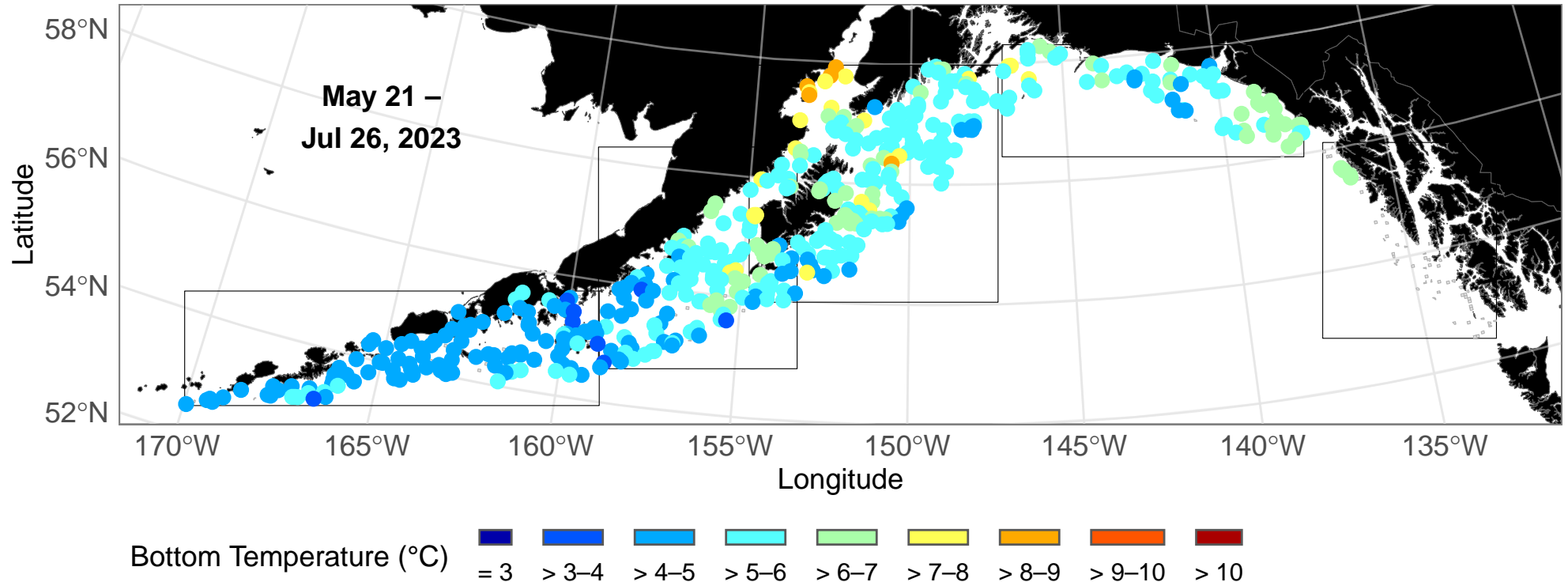
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–July 27. On July 27, a station 414-103 (56.66°N, -135.79°W; >5–6°C) was surveyed by the F/V *Alaska Provider* and stations 406-127 (57.74°N, -136.47°W; >6–7°C), 401-130 (57.89°N, -136.88°W; >4–5°C), 402-130 (57.88°N, -136.78°W; >6–7°C), and 406-127 (57.75°N, -136.44°W; >6–7°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

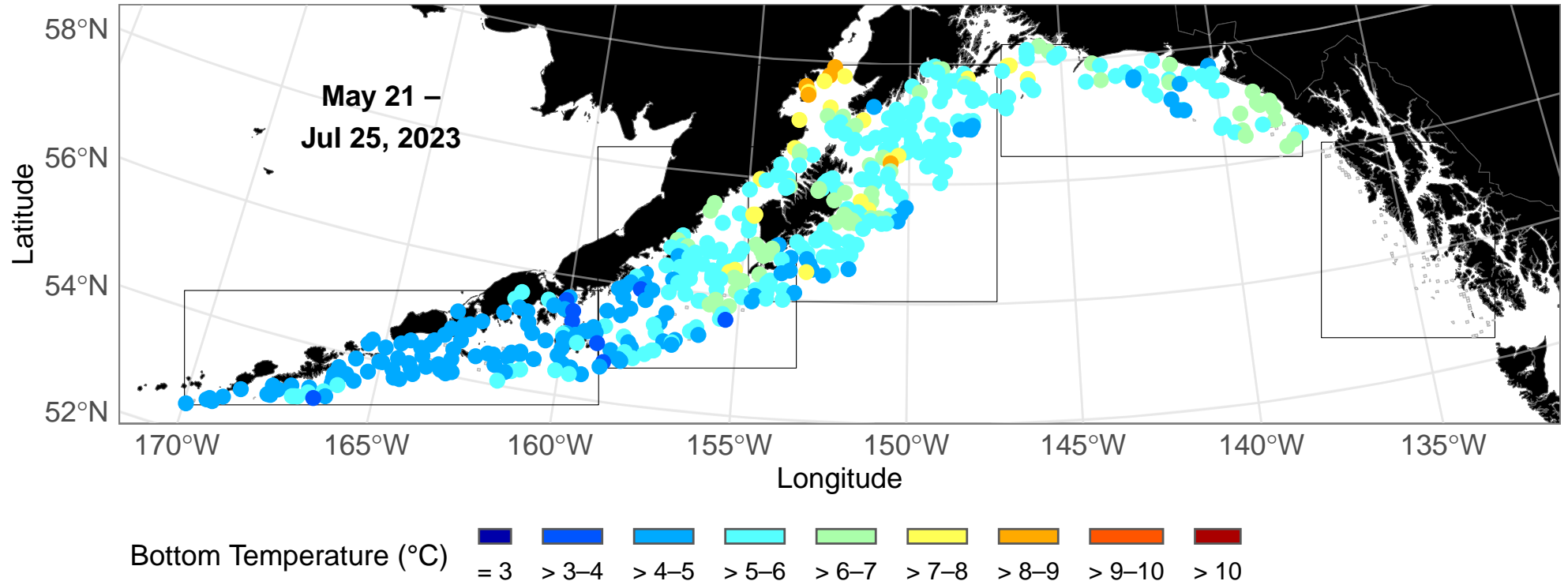
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 26. On July 26, stations 408-121 (57.47°N, -136.29°W; >6–7°C), 408-122 (57.52°N, -136.3°W; >6–7°C), 406-124 (57.61°N, -136.45°W; >6–7°C), and 405-125 (57.66°N, -136.53°W; >6–7°C) were surveyed by the F/V *Alaska Provider* and stations 382-141 (58.4°N, -138.44°W; >6–7°C), 382-144 (58.54°N, -138.44°W; >6–7°C), 392-143 (58.49°N, -137.61°W; >6–7°C), 393-143 (58.49°N, -137.53°W; >6–7°C), and 387-144 (58.54°N, -138.02°W; >6–7°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

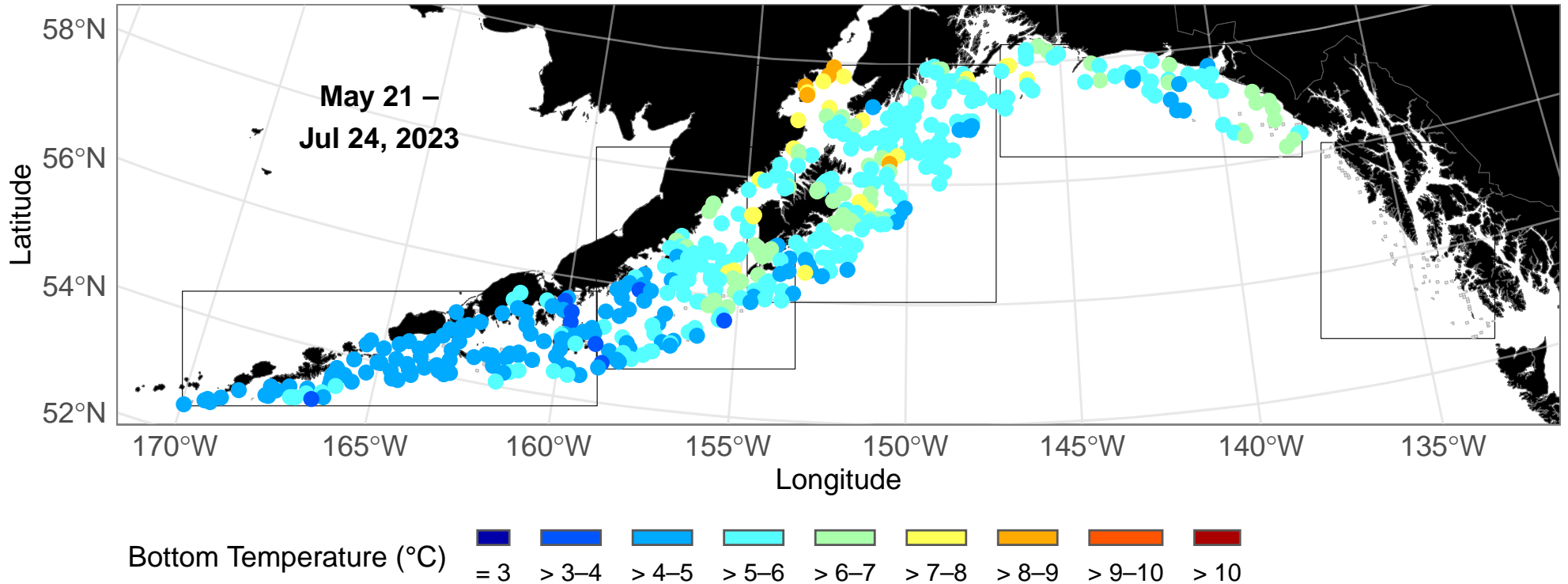
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 25. On July 25, stations 363-146 (58.63°N, -140.01°W; >5-6°C), 371-150 (58.82°N, -139.35°W; >6-7°C), 379-145 (58.58°N, -138.69°W; >5-6°C), and 379-152 (58.91°N, -138.69°W; >6-7°C) were surveyed by the F/V *Ocean Explorer*. No stations were surveyed by the F/V *Alaska Provider*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

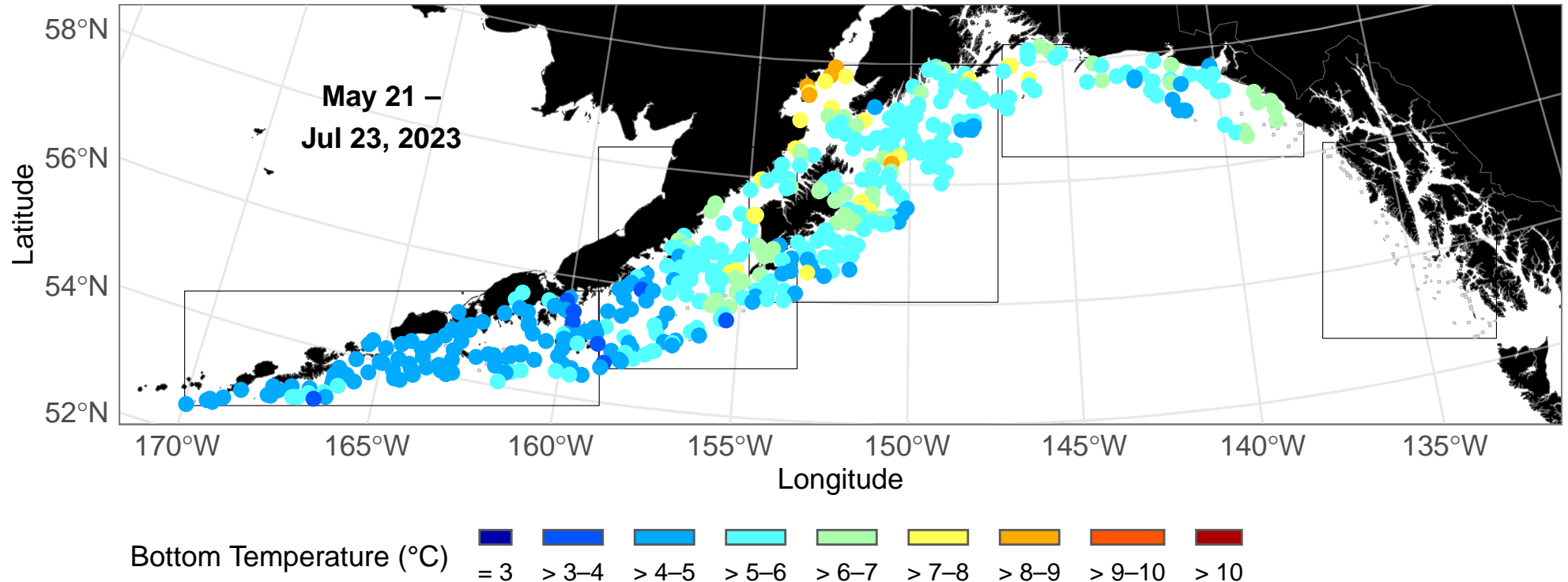
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 24. On July 24, stations 387-136 (58.16°N, -138.02°W; >6-7°C), 392-140 (58.35°N, -137.61°W; >5-6°C), 393-140 (58.35°N, -137.53°W; >5-6°C), and 390-138 (58.26°N, -137.78°W; >6-7°C) were surveyed by the F/V *Alaska Provider*. No stations were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

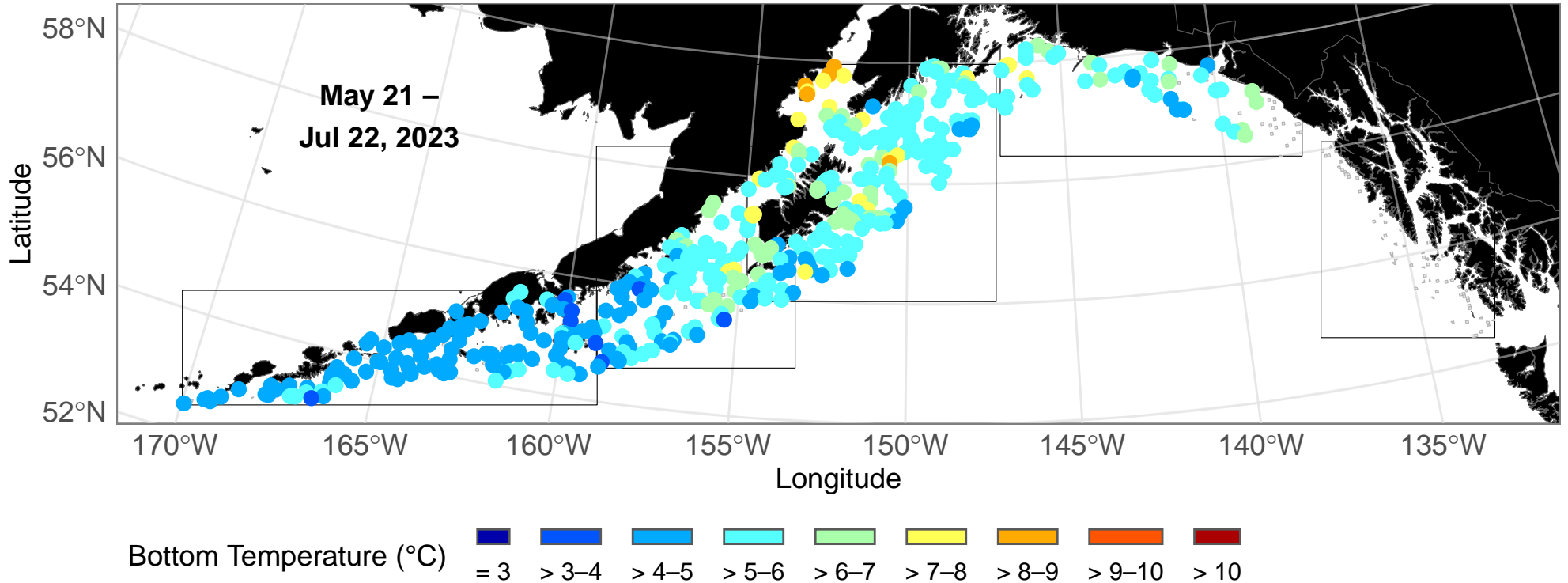
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–July 23. On July 23, stations 384-146 (58.63°N, -138.27°W; >6–7°C) and 384-150 (58.82°N, -138.27°W; >6–7°C) were surveyed by the F/V *Alaska Provider* and stations 349-163 (59.44°N, -141.17°W; >4–5°C), 353-166 (59.58°N, -140.83°W; >5–6°C), 360-163 (59.42°N, -140.25°W; >5–6°C), 362-165 (59.54°N, -140.09°W; >5–6°C), and 383-153 (58.96°N, -138.36°W; >6–7°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

# 2023 Bottom Temperature (°C)

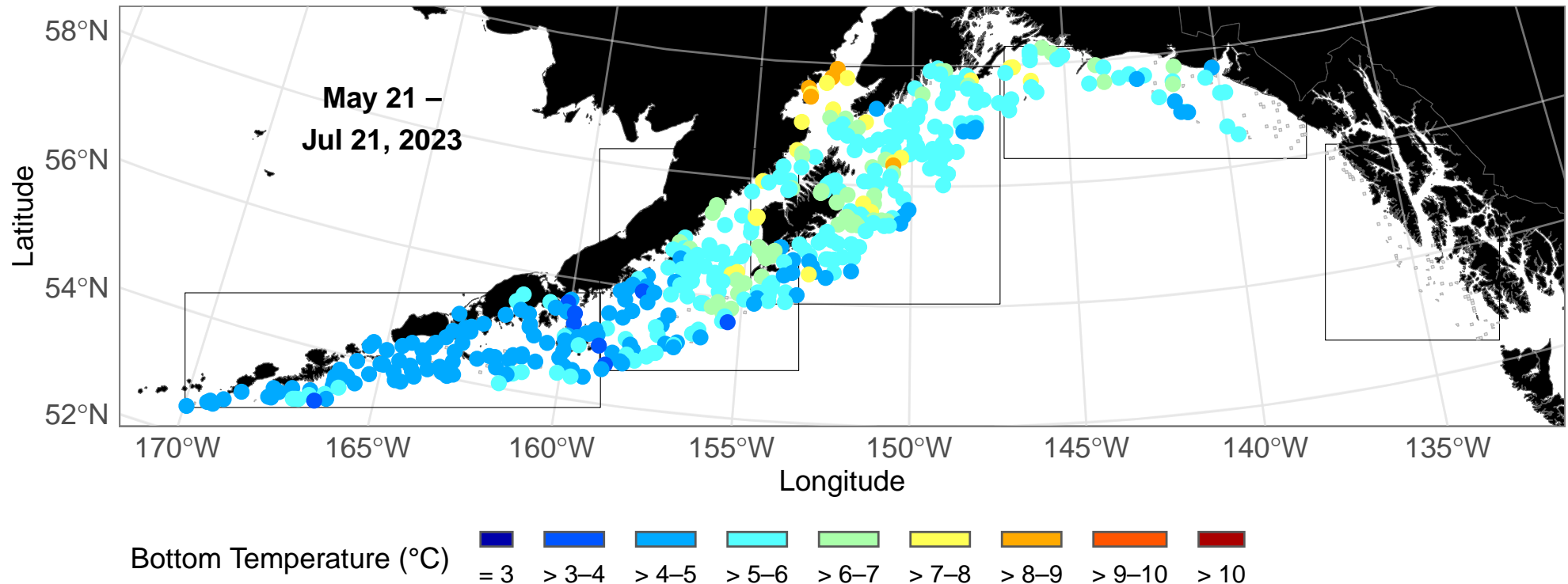
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 22. On July 22, stations 371-144 (58.54°N, -139.35°W; >6-7°C), 372-142 (58.44°N, -139.28°W; >6-7°C), 377-157 (59.15°N, -138.85°W; >6-7°C), and 378-153 (58.96°N, -138.77°W; >6-7°C) were surveyed by the *F/V Alaska Provider* and stations 337-162 (59.39°N, -142.16°W; >5-6°C), 338-165 (59.54°N, -142.07°W; >5-6°C), 331-166 (59.58°N, -142.67°W; >4-5°C), and 339-172 (59.87°N, -141.99°W; >5-6°C) were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

## 2023 Bottom Temperature (°C)

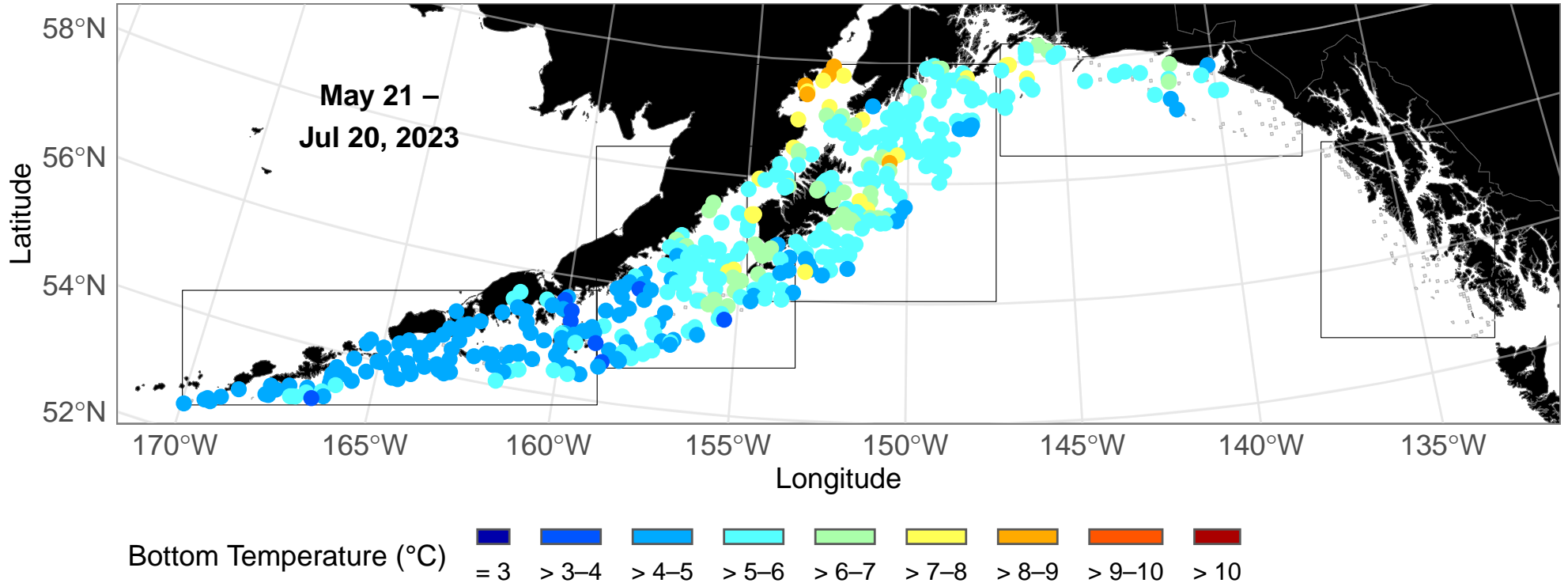
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 21. On July 21, stations 364-147 (58.68°N, -139.93°W; >5-6°C), 368-144 (58.52°N, -139.6°W; >5-6°C), 349-154 (59.01°N, -141.17°W; >5-6°C), and 350-154 (58.99°N, -141.12°W; >4-5°C) were surveyed by the *F/V Alaska Provider* and stations 315-173 (59.92°N, -143.97°W; >6-7°C), 318-167 (59.63°N, -143.73°W; >6-7°C), 318-172 (59.87°N, -143.72°W; >5-6°C), and 331-167 (59.63°N, -142.65°W; >4-5°C) were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

# 2023 Bottom Temperature (°C)

NOAA Fisheries Gulf of Alaska Bottom Trawl Survey

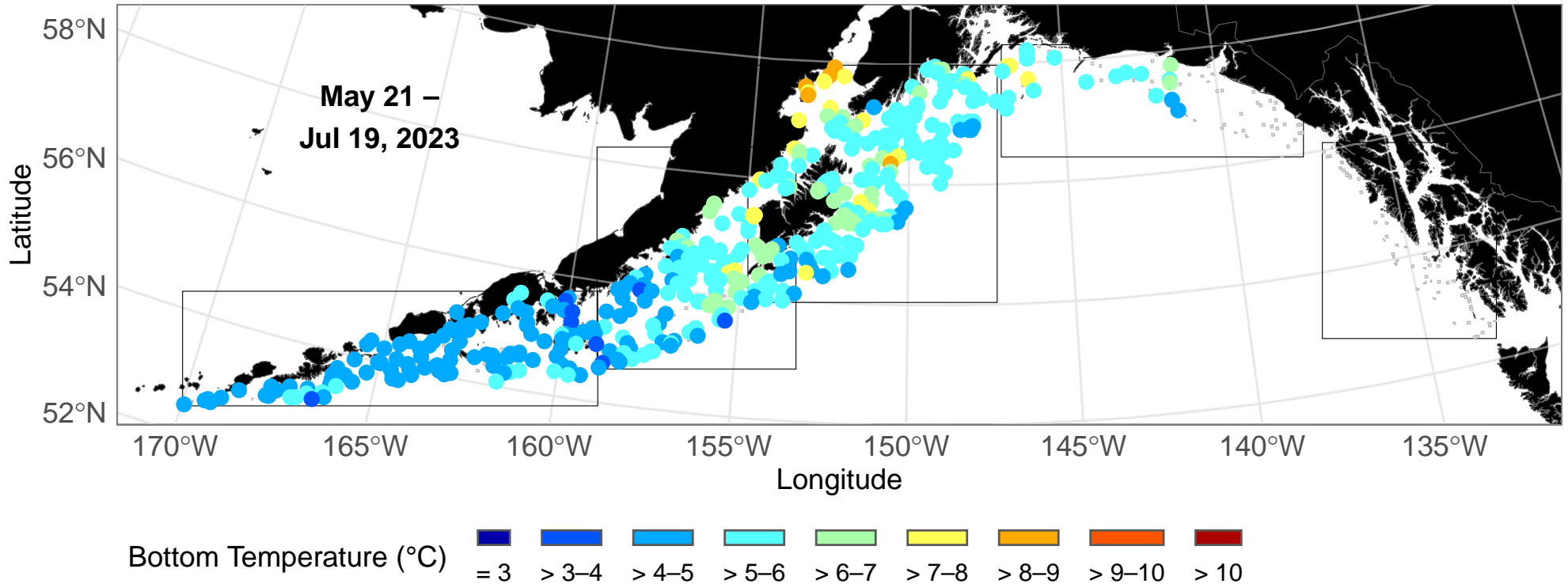


NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–July 20. On July 20, stations 358-165 (59.53°N, -140.42°W; >5–6°C), 361-168 (59.68°N, -140.17°W; >4–5°C), 363-159 (59.25°N, -140.01°W; >5–6°C), and 365-159 (59.25°N, -139.84°W; >5–6°C) were surveyed by the *F/V Alaska Provider* and stations 289-167 (59.62°N, -146.12°W; >5–6°C), 294-180 (60.27°N, -145.71°W; >6–7°C), 298-178 (60.17°N, -145.38°W; >6–7°C), and 302-177 (60.12°N, -145.05°W; >5–6°C) were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*



## 2023 Bottom Temperature (°C)

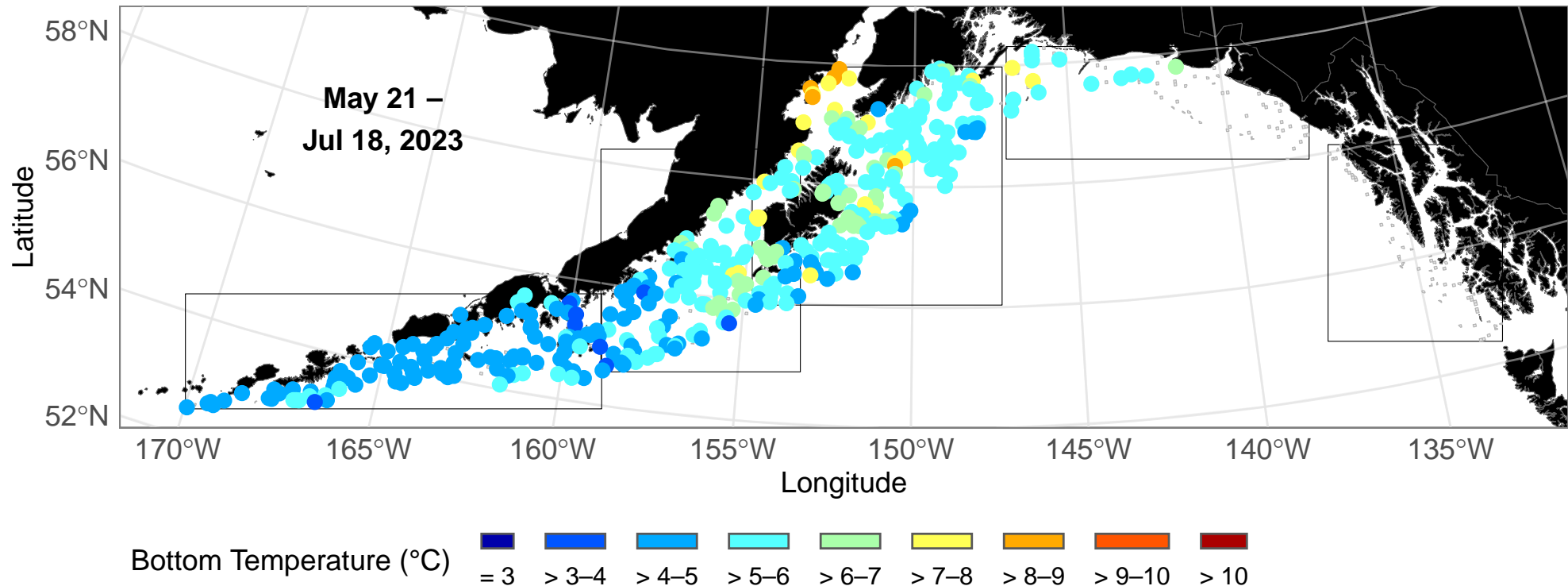
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–July 19. On July 19, stations 339-160 (59.29°N, -141.99°W; >5–6°C), 345-158 (59.2°N, -141.5°W; >4–5°C), 345-164 (59.49°N, -141.5°W; >6–7°C), 345-165 (59.54°N, -141.5°W; >5–6°C), and 347-154 (59.01°N, -141.33°W; >4–5°C) were surveyed by the *F/V Alaska Provider* and stations 279-172 (59.88°N, -146.96°W; >5–6°C), 276-162 (59.38°N, -147.19°W; >5–6°C), and 282-174 (59.96°N, -146.7°W; >7–8°C) were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

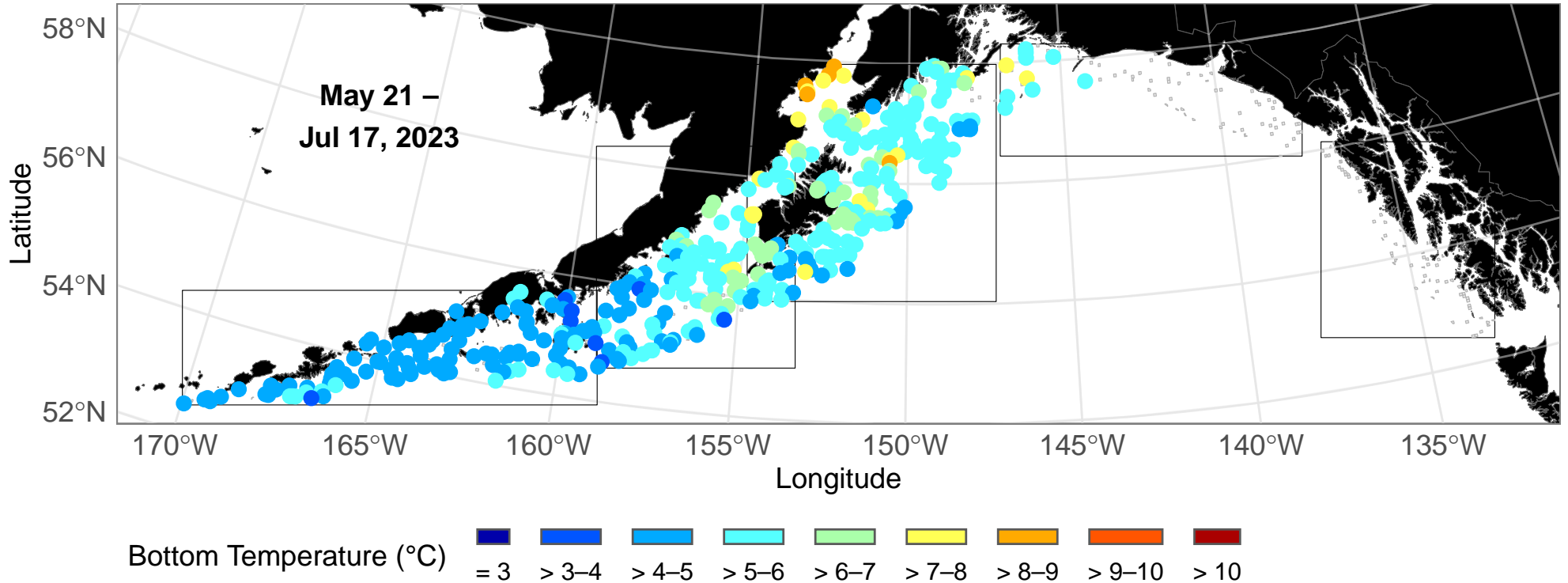
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 18. On July 18, stations 324-168 (59.68°N, -143.23°W; >5-6°C), 328-169 (59.73°N, -142.9°W; >5-6°C), 334-168 (59.68°N, -142.41°W; >5-6°C), and 346-170 (59.78°N, -141.41°W; >6-7°C) were surveyed by the F/V *Alaska Provider* and stations 264-167 (59.63°N, -148.2°W; >5-6°C), 267-162 (59.39°N, -147.94°W; >5-6°C), 267-166 (59.58°N, -147.94°W; >5-6°C), 270-163 (59.44°N, -147.69°W; >5-6°C), and 267-153 (58.98°N, -147.96°W; >4-5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

# 2023 Bottom Temperature (°C)

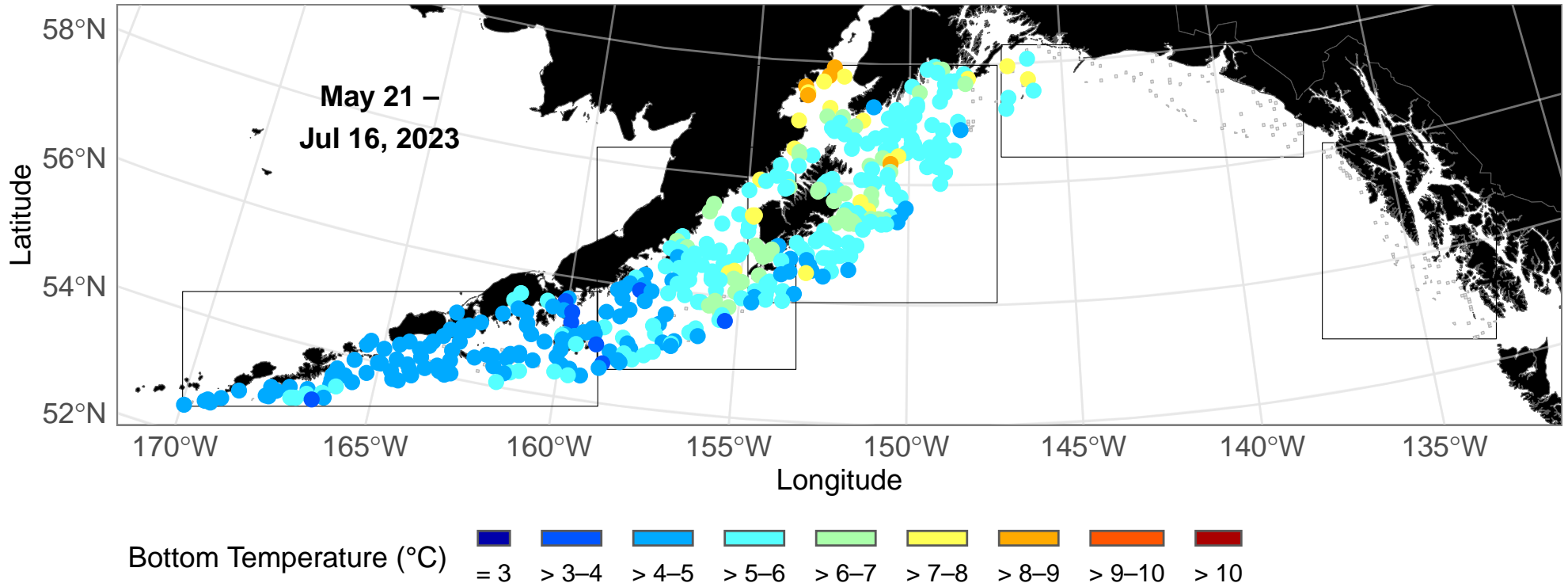
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 17. On July 17, stations 289-179 (60.21°N, -146.12°W; >5–6°C), 300-176 (60.06°N, -145.22°W; >5–6°C), 312-167 (59.62°N, -144.22°W; >5–6°C), and 289-178 (60.16°N, -146.12°W; >5–6°C) were surveyed by the *F/V Alaska Provider* and stations 265-155 (59.06°N, -148.11°W; >5–6°C), 266-152 (58.91°N, -148.02°W; >4–5°C), 265-152 (58.92°N, -148.11°W; >4–5°C), 266-153 (58.96°N, -148.03°W; >4–5°C), and 267-155 (59.06°N, -147.94°W; >5–6°C) were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

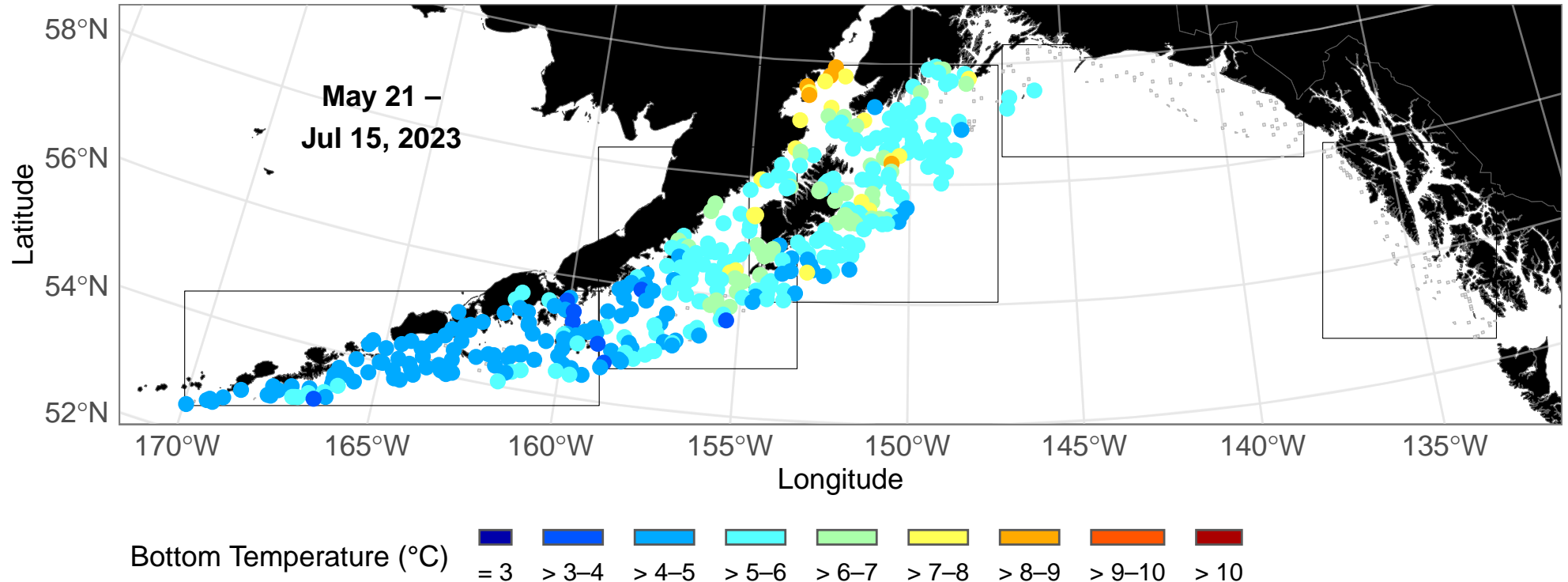
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 16. On July 16, stations 281-174 (59.96°N, -146.79°W; >7-8°C), 289-176 (60.07°N, -146.12°W; >5-6°C), and 289-169 (59.73°N, -146.12°W; >7-8°C) were surveyed by the F/V *Alaska Provider* and stations 244-157 (59.15°N, -149.84°W; >5-6°C), 254-162 (59.39°N, -149.02°W; >5-6°C), 256-165 (59.54°N, -148.86°W; >5-6°C), and 260-169 (59.73°N, -148.52°W; >5-6°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

## 2023 Bottom Temperature (°C)

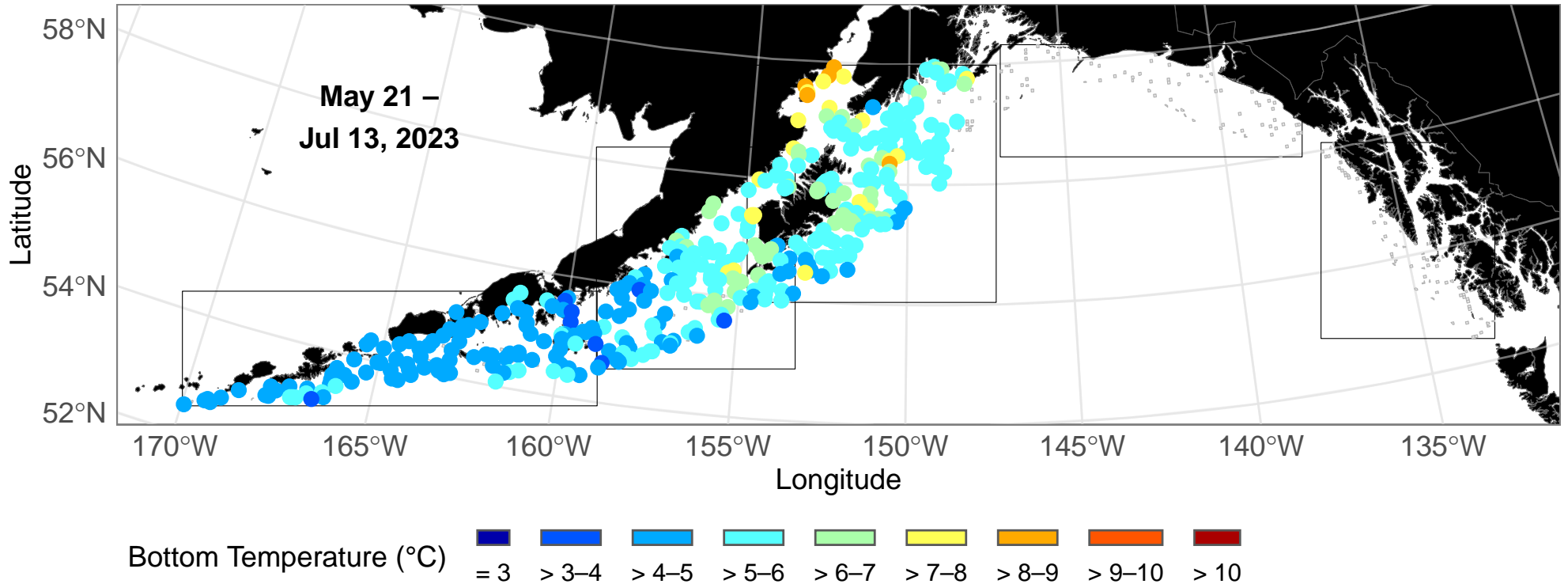
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 15. On July 15, stations 281-163 (59.43°N, -146.79°W; >5–6°C), 291-165 (59.54°N, -145.96°W; >5–6°C), and 280-159 (59.25°N, -146.87°W; >5–6°C) were surveyed by the F/V *Alaska Provider* and stations 255-144 (58.54°N, -148.93°W; >5–6°C), 259-145 (58.58°N, -148.58°W; >5–6°C), 262-152 (58.92°N, -148.36°W; >4–5°C), and 254-147 (58.68°N, -149.02°W; >5–6°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

# 2023 Bottom Temperature (°C)

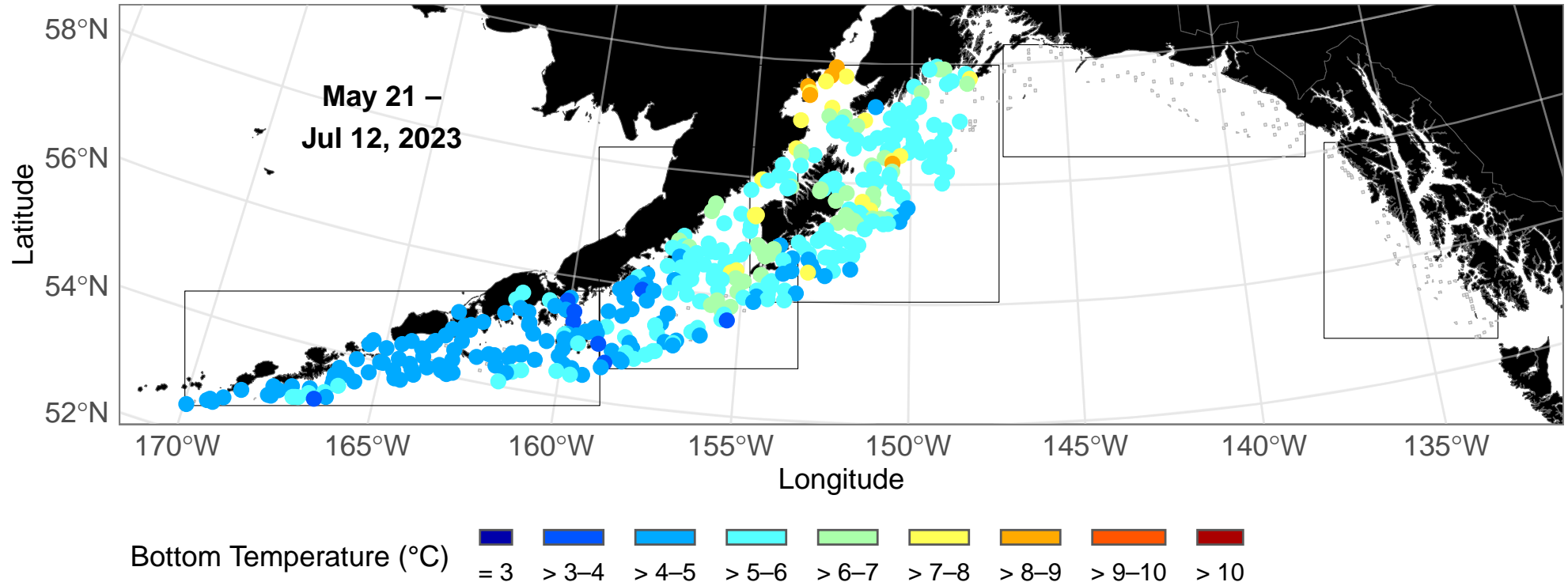
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–July 13. On July 13, a station 253-172 (59.87°N, -149.1°W; >5–6°C) was surveyed by the F/V *Alaska Provider*. No stations were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots.  
Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

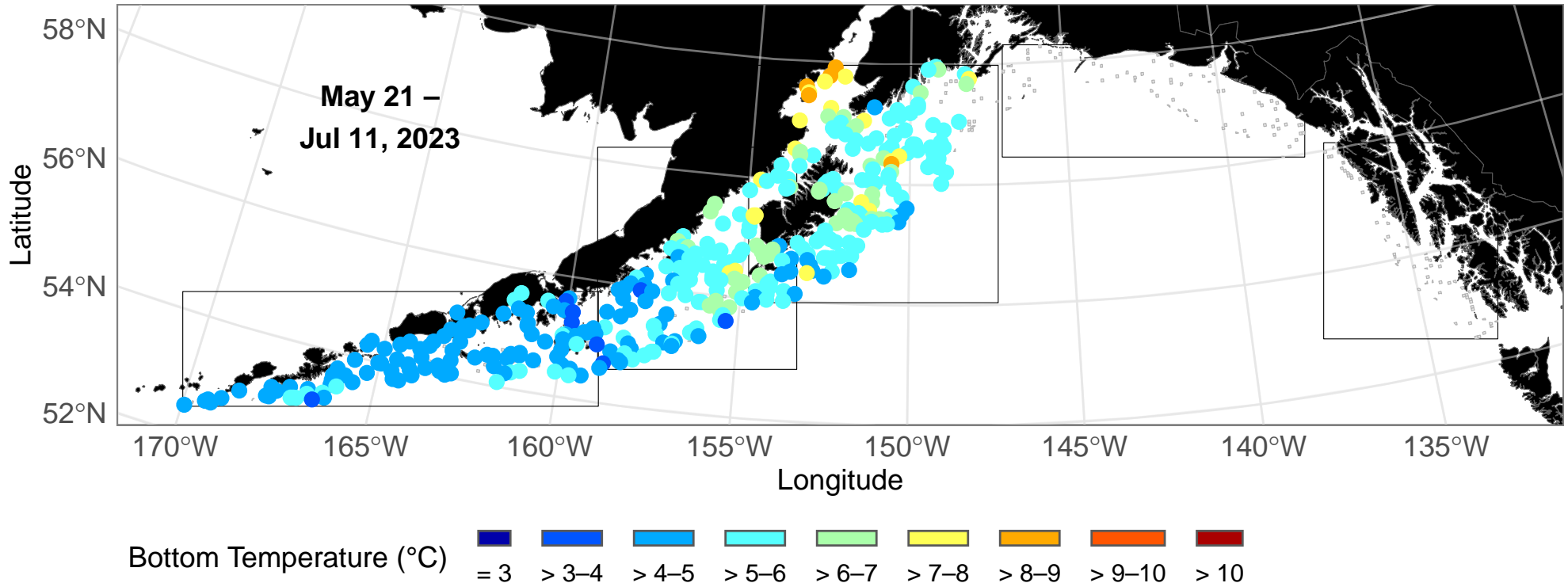
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 12. On July 12, stations 256-168 (59.68°N, -148.85°W; >5-6°C), 258-169 (59.73°N, -148.69°W; >5-6°C), and 255-173 (59.92°N, -148.93°W; >6-7°C) were surveyed by the F/V *Alaska Provider* and stations 233-150 (58.82°N, -150.75°W; >5-6°C), 237-153 (58.96°N, -150.42°W; >5-6°C), 243-149 (58.77°N, -149.93°W; >5-6°C), 246-144 (58.54°N, -149.68°W; >5-6°C), and 242-153 (58.96°N, -150.01°W; >5-6°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

NOAA Fisheries Gulf of Alaska Bottom Trawl Survey

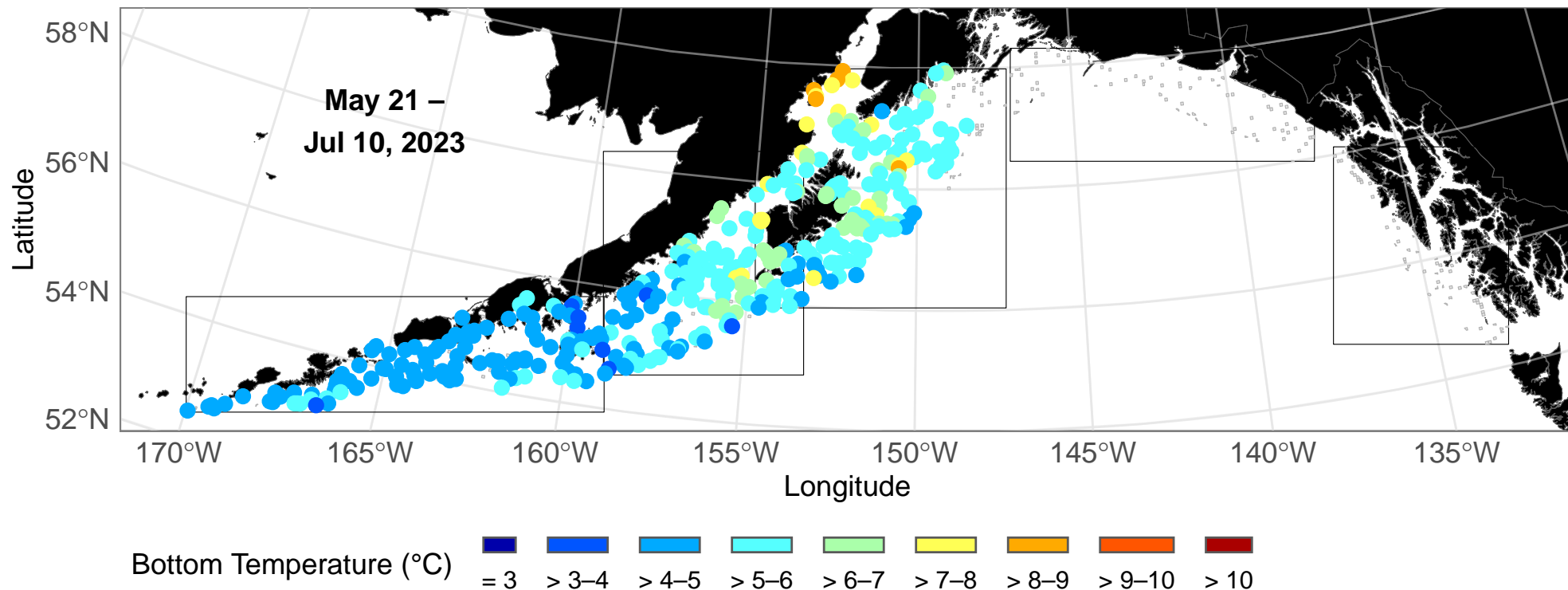


NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 11. On July 11, stations 264-168 (59.68°N, -148.18°W; >6–7°C), 264-171 (59.85°N, -148.23°W; >5–6°C), 264-171 (59.81°N, -148.18°W; >5–6°C), and 265-170 (59.77°N, -148.1°W; >7–8°C) were surveyed by the *F/V Alaska Provider* and stations 251-144 (58.54°N, -149.26°W; >5–6°C), 253-139 (58.3°N, -149.1°W; >5–6°C), 254-133 (58.02°N, -149.02°W; >5–6°C), and 256-137 (58.21°N, -148.86°W; >5–6°C) were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries



## 2023 Bottom Temperature (°C)

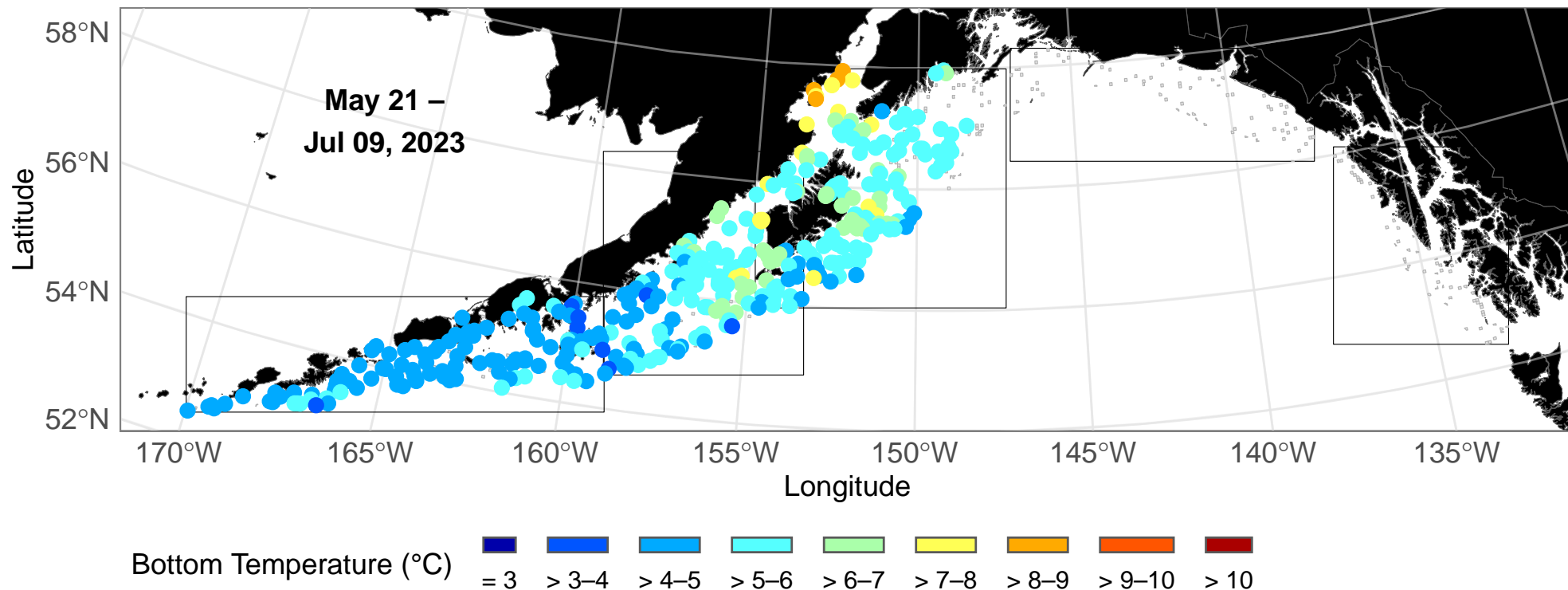
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–July 10. On July 10, stations 245-160 (59.29°N, -149.76°W; >5–6°C), 245-161 (59.34°N, -149.76°W; >5–6°C), 246-165 (59.54°N, -149.68°W; >6–7°C), and 243-167 (59.64°N, -149.93°W; >5–6°C) were surveyed by the *F/V Alaska Provider* and stations 235-140 (58.35°N, -150.59°W; >8–9°C), 235-141 (58.4°N, -150.59°W; >7–8°C), 238-143 (58.48°N, -150.34°W; >7–8°C), 241-144 (58.54°N, -150.09°W; >5–6°C), and 232-142 (58.44°N, -150.83°W; >6–7°C) were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

# 2023 Bottom Temperature (°C)

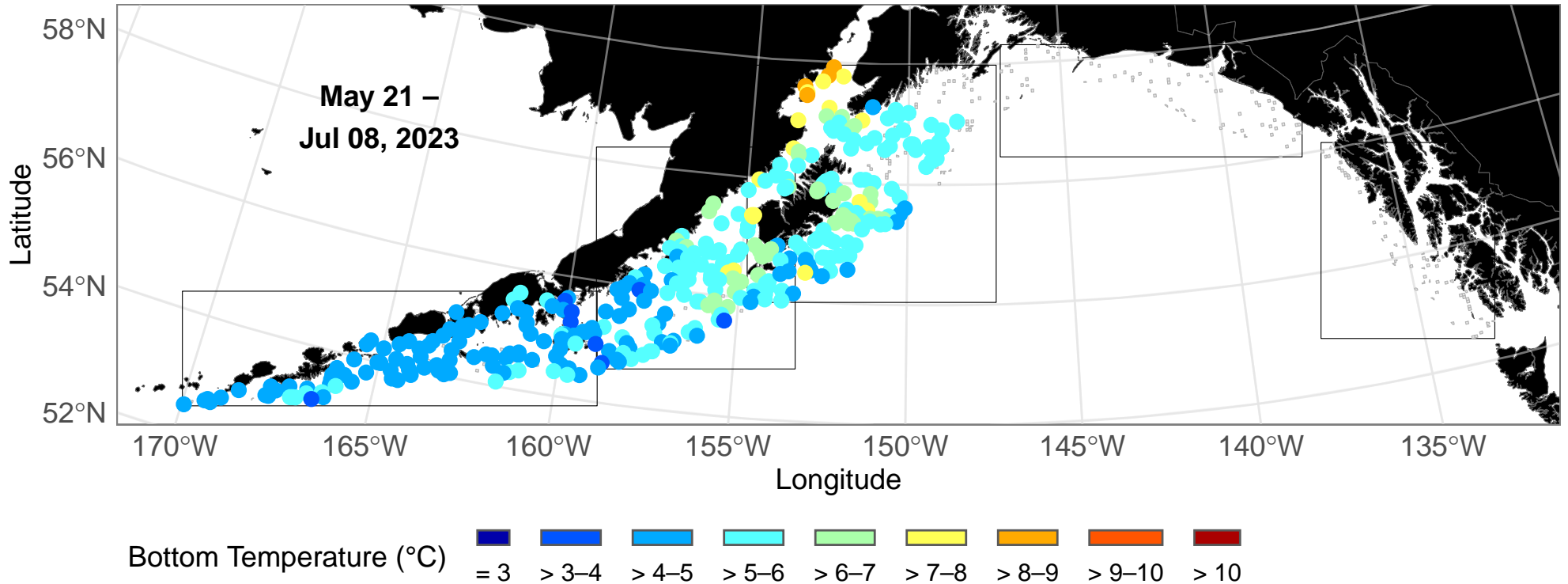
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 9. On July 9, stations 249-173 (59.92°N, -149.42°W; >5-6°C), 252-174 (59.97°N, -149.18°W; >5-6°C), and 253-173 (59.93°N, -149.1°W; >6-7°C) were surveyed by the *F/V Alaska Provider* and stations 227-139 (58.31°N, -151.25°W; >6-7°C), 228-138 (58.25°N, -151.17°W; >5-6°C), 234-135 (58.12°N, -150.67°W; >5-6°C), 234-136 (58.16°N, -150.67°W; >5-6°C), and 235-137 (58.22°N, -150.59°W; >6-7°C) were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

# 2023 Bottom Temperature (°C)

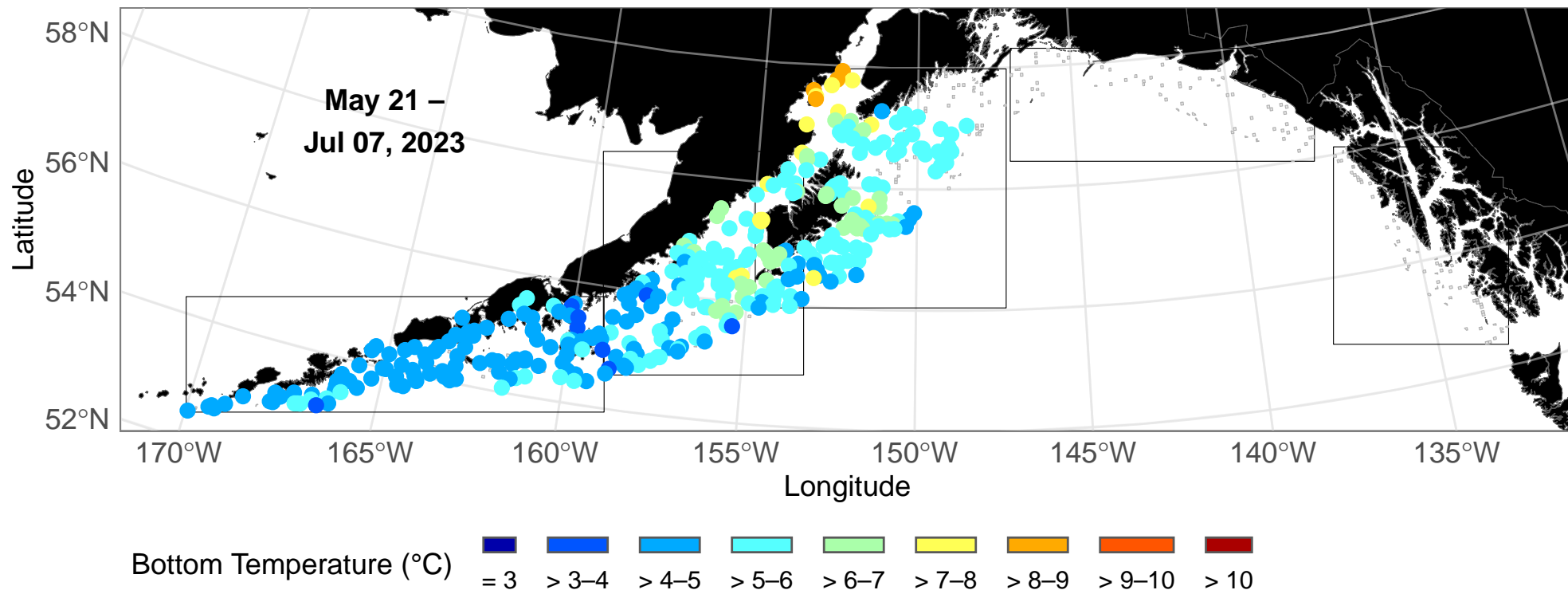
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 8. On July 8, stations 227-123 (57.56°N, -151.25°W; >7-8°C), 236-131 (57.93°N, -150.5°W; >5-6°C), and 239-128 (57.79°N, -150.26°W; >5-6°C) were surveyed by the *F/V Ocean Explorer*. No stations were surveyed by the *F/V Alaska Provider*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

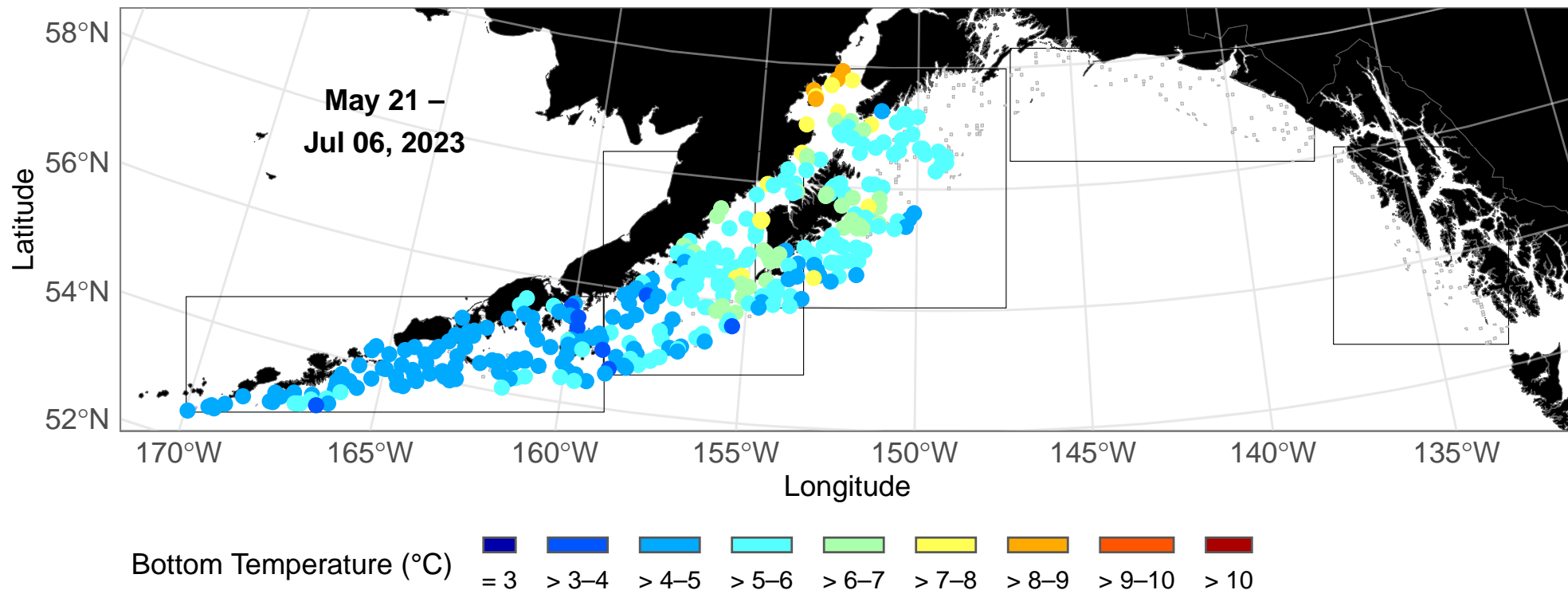
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 7. On July 7, stations 251-154 (59°N, -149.27°W; >5-6°C), 254-148 (58.72°N, -149.03°W; >5-6°C), 255-146 (58.63°N, -148.93°W; >5-6°C), 255-152 (58.91°N, -148.93°W; >5-6°C), and 261-155 (59.05°N, -148.44°W; >5-6°C) were surveyed by the F/V *Alaska Provider* and stations 225-116 (57.24°N, -151.4°W; >5-6°C), 231-120 (57.43°N, -150.92°W; >6-7°C), 232-118 (57.34°N, -150.83°W; >5-6°C), 232-119 (57.38°N, -150.83°W; >6-7°C), and 233-120 (57.42°N, -150.75°W; >6-7°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

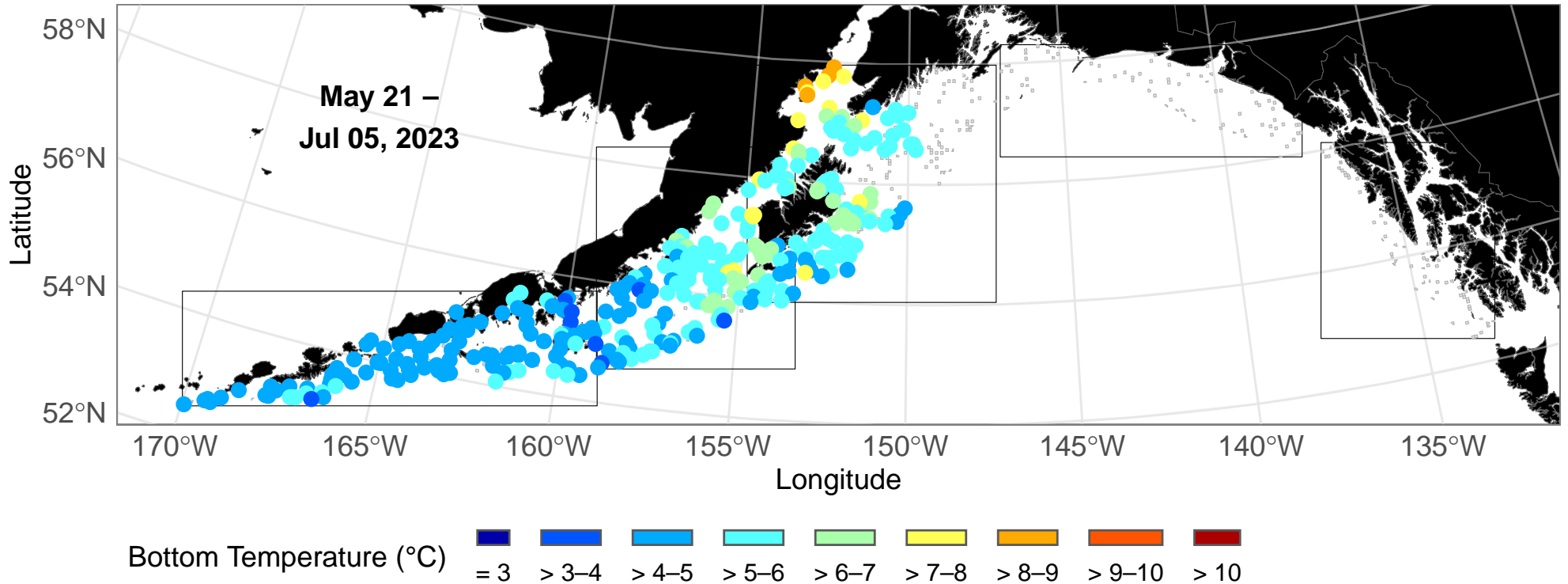
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 6. On July 6, stations 249-139 (58.3°N, -149.43°W; >5-6°C), 250-146 (58.63°N, -149.35°W; >5-6°C), 251-145 (58.58°N, -149.26°W; >5-6°C), 253-142 (58.44°N, -149.1°W; >5-6°C), 253-144 (58.54°N, -149.1°W; >5-6°C), and 251-141 (58.4°N, -149.26°W; >5-6°C) were surveyed by the F/V *Alaska Provider* and stations 224-134 (58.07°N, -151.5°W; >5-6°C), 226-134 (58.07°N, -151.33°W; >5-6°C), 229-133 (58.02°N, -151.08°W; >5-6°C), and 218-129 (57.84°N, -152°W; >6-7°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

# 2023 Bottom Temperature (°C)

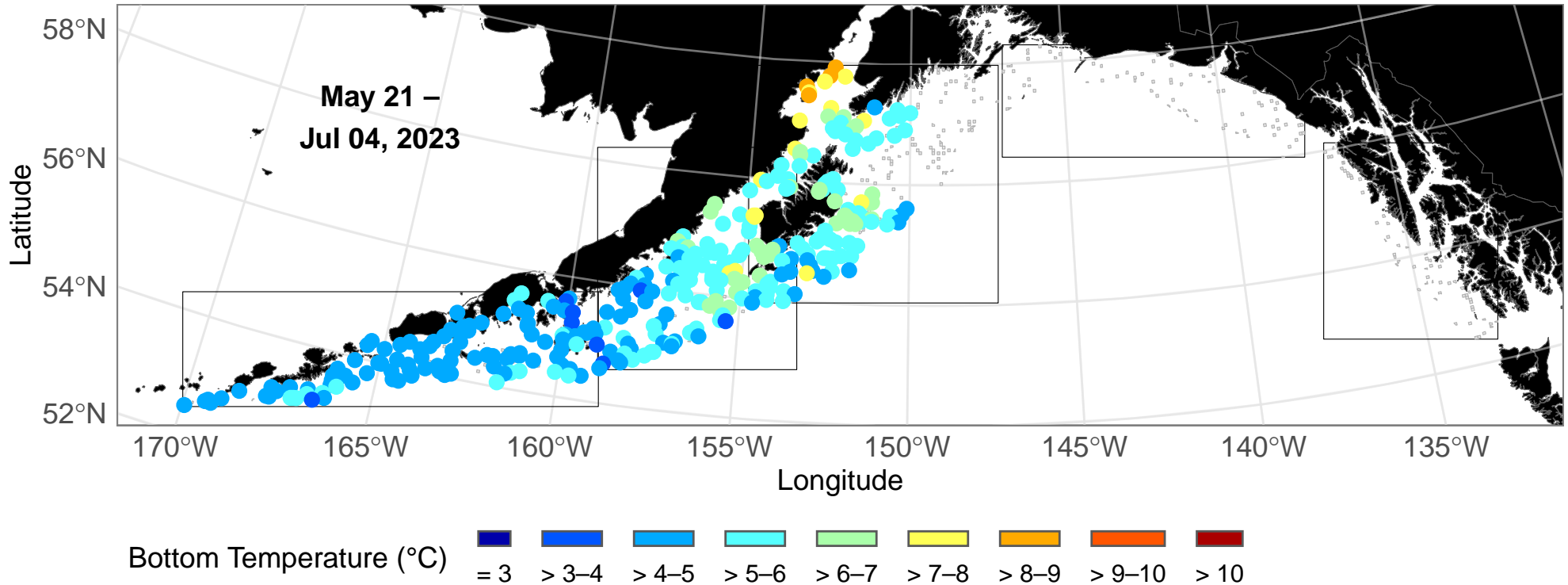
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 5. On July 5, stations 233-145 (58.57°N, -150.75°W; >5-6°C), 235-146 (58.64°N, -150.59°W; >5-6°C), 243-147 (58.68°N, -149.93°W; >5-6°C), 244-147 (58.68°N, -149.84°W; >5-6°C), and 245-145 (58.58°N, -149.76°W; >5-6°C) were surveyed by the *FV Alaska Provider*. No stations were surveyed by the *FV Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

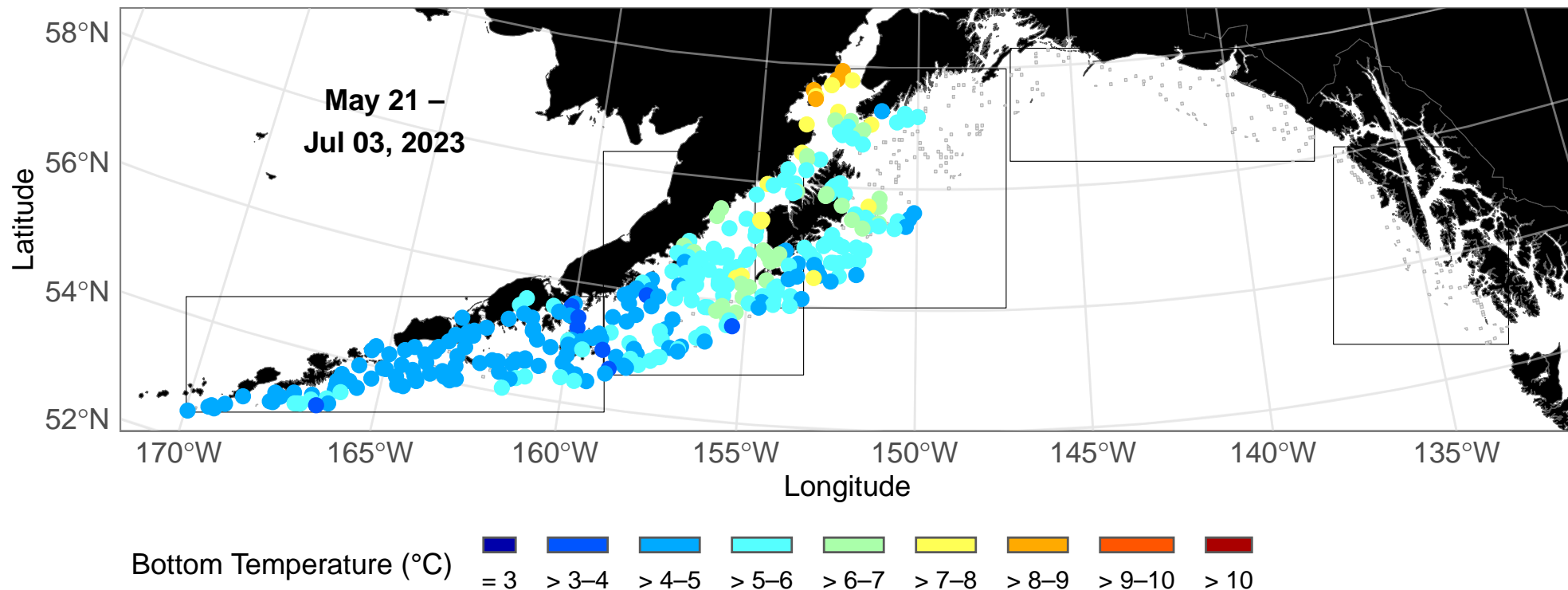
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–July 4. On July 4, stations 220-145 (58.58°N, -151.83°W; >5–6°C), 226-147 (58.68°N, -151.33°W; >5–6°C), 240-152 (58.91°N, -150.17°W; >5–6°C), 229-149 (58.77°N, -151.08°W; >5–6°C), and 236-150 (58.82°N, -150.5°W; >5–6°C) were surveyed by the *F/V Alaska Provider* and stations 215-118 (57.34°N, -152.24°W; >6–7°C), 219-120 (57.43°N, -151.91°W; >6–7°C), 220-118 (57.34°N, -151.83°W; >6–7°C), and 221-119 (57.38°N, -151.74°W; >6–7°C) were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

NOAA Fisheries Gulf of Alaska Bottom Trawl Survey

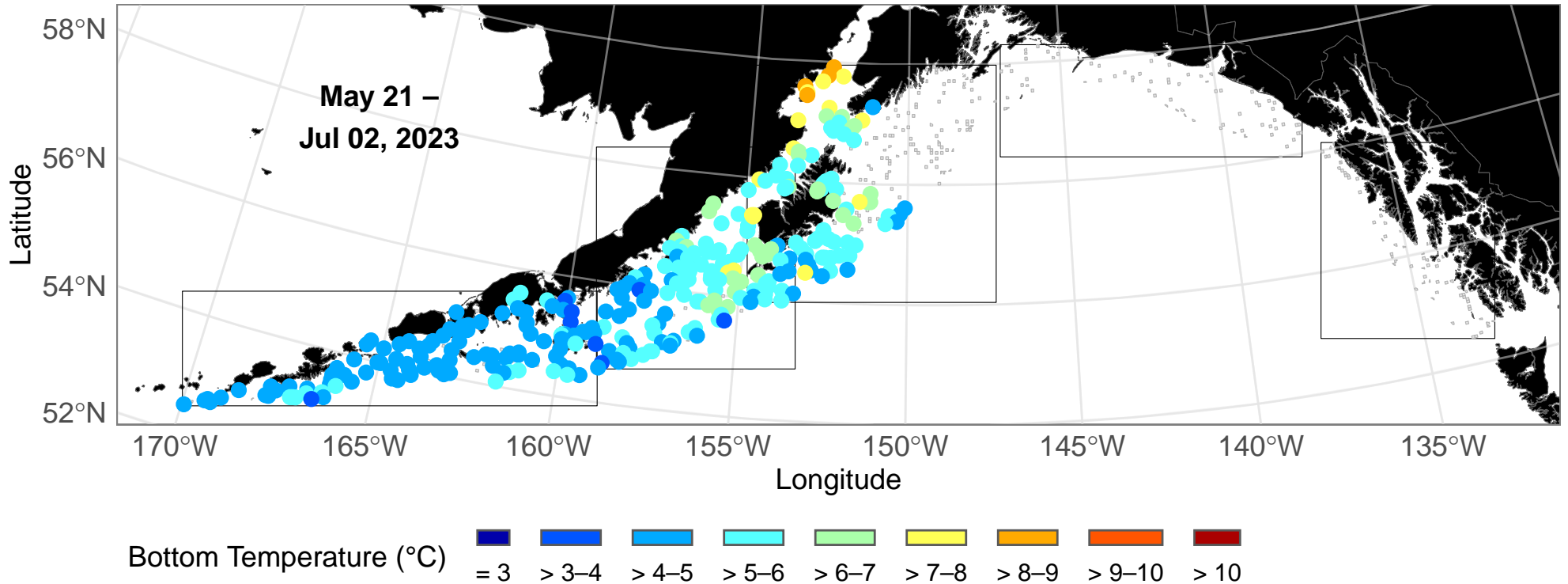


NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-July 3. On July 3, stations 234-156 (59.1°N, -150.67°W; >5-6°C), 237-159 (59.25°N, -150.42°W; >5-6°C), 238-157 (59.15°N, -150.34°W; >5-6°C), and 242-158 (59.2°N, -150.01°W; >5-6°C) were surveyed by the F/V *Alaska Provider* and stations 223-122 (57.52°N, -151.58°W; >5-6°C), 224-119 (57.38°N, -151.51°W; >5-6°C), 224-121 (57.47°N, -151.5°W; >5-6°C), 228-119 (57.38°N, -151.16°W; >5-6°C), and 228-120 (57.43°N, -151.17°W; >6-7°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries



## 2023 Bottom Temperature (°C)

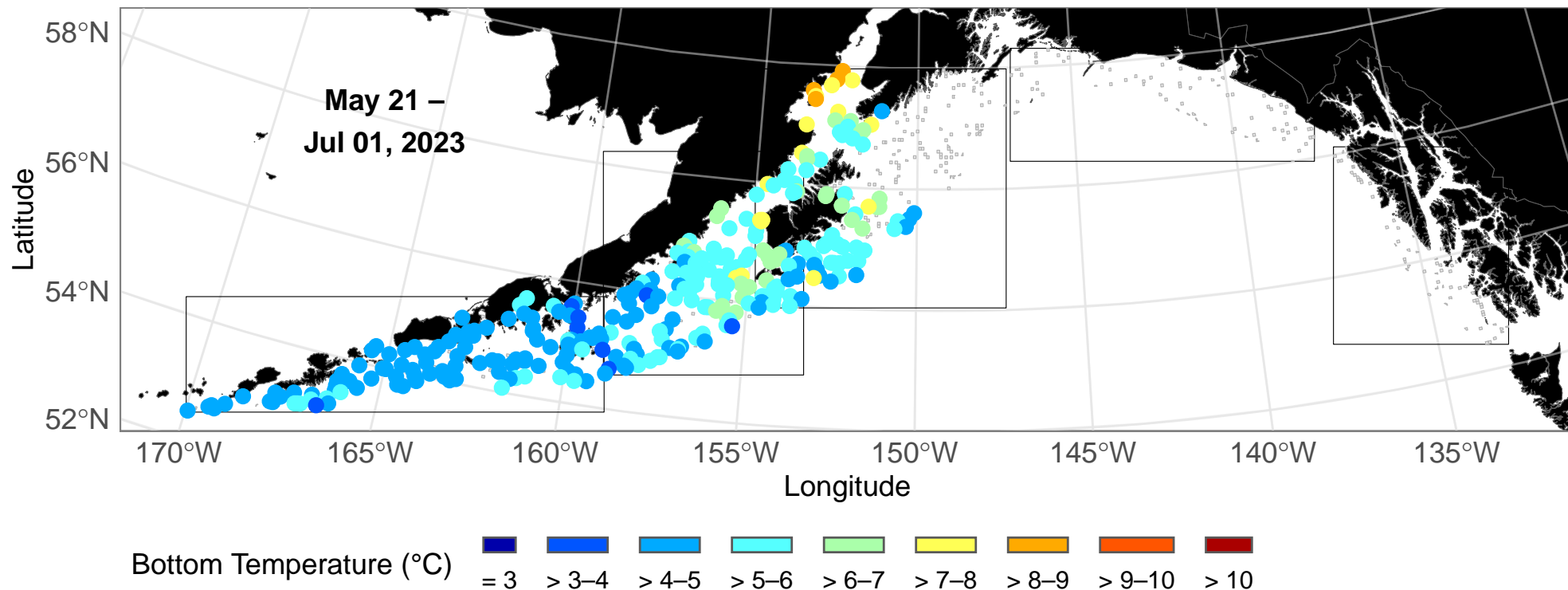
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–July 2. On July 2, stations 211-133 (58.02°N, -152.57°W; >5–6°C), 213-134 (58.07°N, -152.4°W; >5–6°C), 210-132 (57.98°N, -152.65°W; >5–6°C), and 209-130 (57.89°N, -152.72°W; >5–6°C) were surveyed by the F/V *Ocean Explorer*. No stations were surveyed by the F/V *Alaska Provider*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

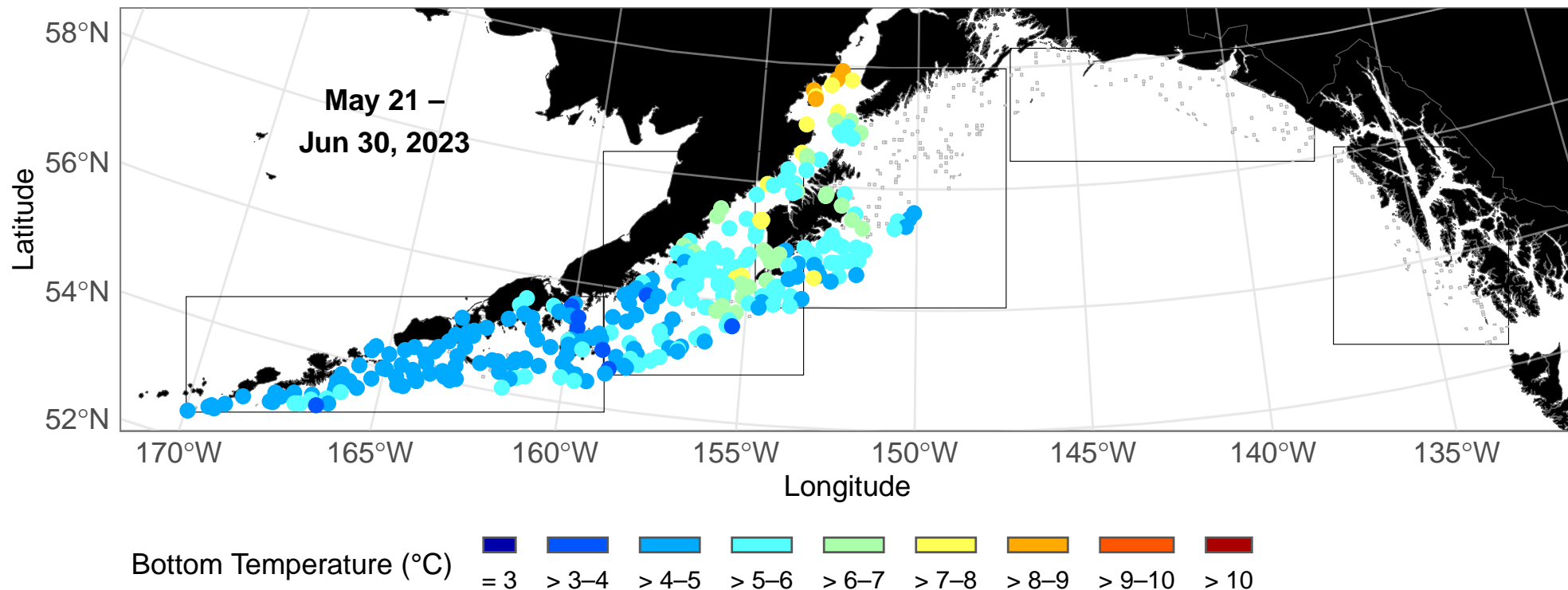
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–July 1. On July 1, stations 221-148 (58.72°N, -151.74°W; >5–6°C), 221-153 (58.96°N, -151.74°W; >6–7°C), 224-155 (59.06°N, -151.5°W; >7–8°C), and 228-160 (59.28°N, -151.17°W; >4–5°C) were surveyed by the *F/V Alaska Provider* and stations 224-126 (57.7°N, -151.5°W; >7–8°C), 227-126 (57.7°N, -151.25°W; >6–7°C), 228-126 (57.7°N, -151.17°W; >6–7°C), and 228-129 (57.84°N, -151.17°W; >6–7°C) were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

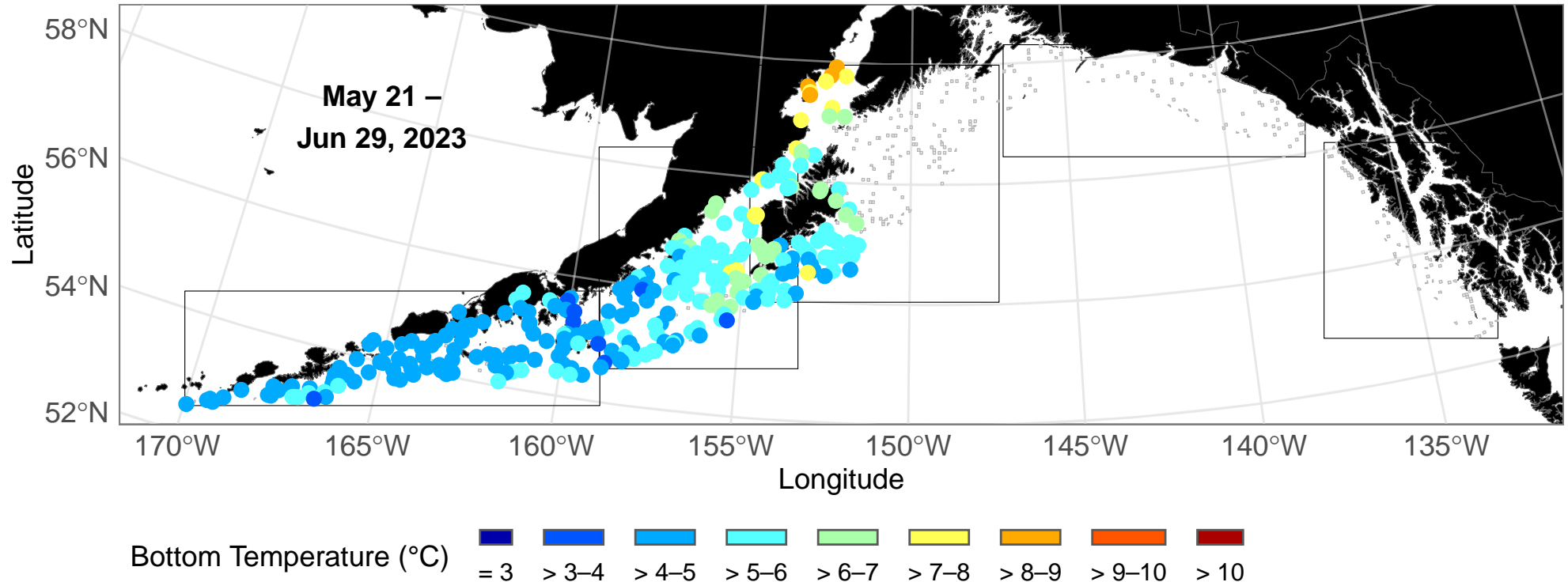
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–June 30. On June 30, stations 212-152 (58.91°N, -152.49°W; >5–6°C), 213-151 (58.87°N, -152.4°W; >5–6°C), 215-154 (59.01°N, -152.24°W; >5–6°C), 217-150 (58.82°N, -152.07°W; >5–6°C), and 220-152 (58.91°N, -151.83°W; >6–7°C) were surveyed by the F/V *Alaska Provider* and stations 234-118 (57.34°N, -150.69°W; >5–6°C), 235-121 (57.47°N, -150.59°W; >5–6°C), 241-124 (57.61°N, -150.09°W; >4–5°C), 239-122 (57.51°N, -150.24°W; >4–5°C), and 238-119 (57.38°N, -150.34°W; >4–5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

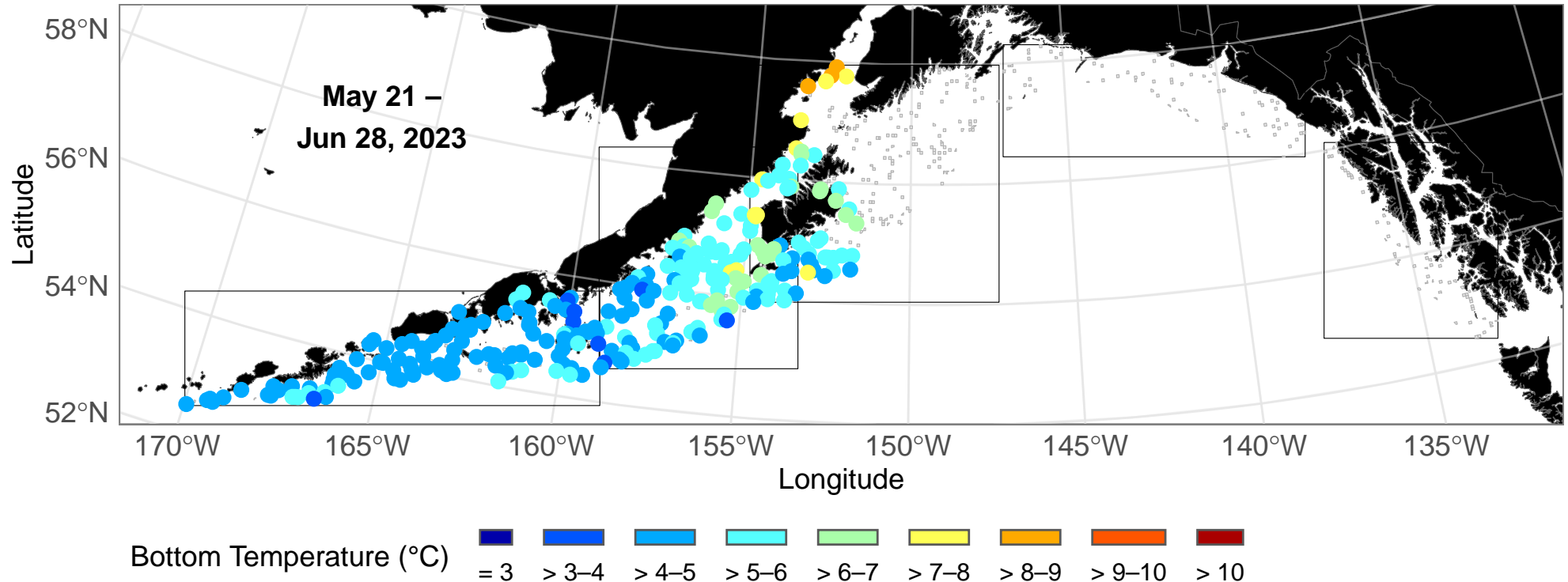
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–June 29. On June 29, stations 202-163 (59.44°N, -153.31°W; >8–9°C), 202-164 (59.49°N, -153.31°W; >7–8°C), 210-156 (59.1°N, -152.65°W; >6–7°C), 211-159 (59.25°N, -152.57°W; >7–8°C), and 216-156 (59.1°N, -152.16°W; >6–7°C) were surveyed by the F/V *Alaska Provider* and stations 211-115 (57.21°N, -152.58°W; >5–6°C), 213-112 (57.07°N, -152.41°W; >5–6°C), 215-111 (57.02°N, -152.24°W; >5–6°C), 220-111 (57.02°N, -151.83°W; >5–6°C), and 223-110 (56.98°N, -151.58°W; >5–6°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

## 2023 Bottom Temperature (°C)

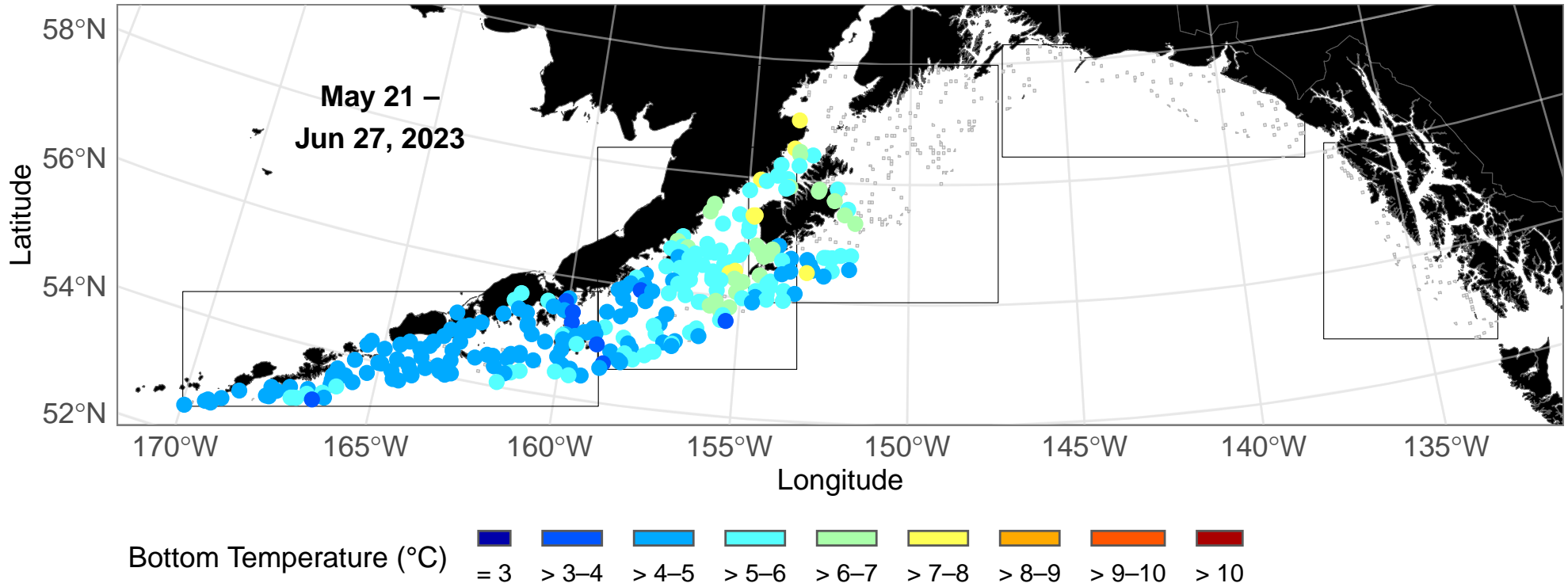
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–June 28. On June 28, stations 208-168 (59.68°N, -152.82°W; >7–8°C), 210-170 (59.78°N, -152.65°W; >8–9°C), 212-173 (59.92°N, -152.49°W; >8–9°C), 216-170 (59.78°N, -152.16°W; >7–8°C), and 201-166 (59.58°N, -153.4°W; >8–9°C) were surveyed by the *F/V Alaska Provider* and stations 201-110 (56.98°N, -153.4°W; >5–6°C), 203-108 (56.89°N, -153.23°W; >5–6°C), 205-106 (56.8°N, -153.07°W; >5–6°C), 208-111 (57.02°N, -152.82°W; >5–6°C), and 209-112 (57.07°N, -152.74°W; >5–6°C) were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

# 2023 Bottom Temperature (°C)

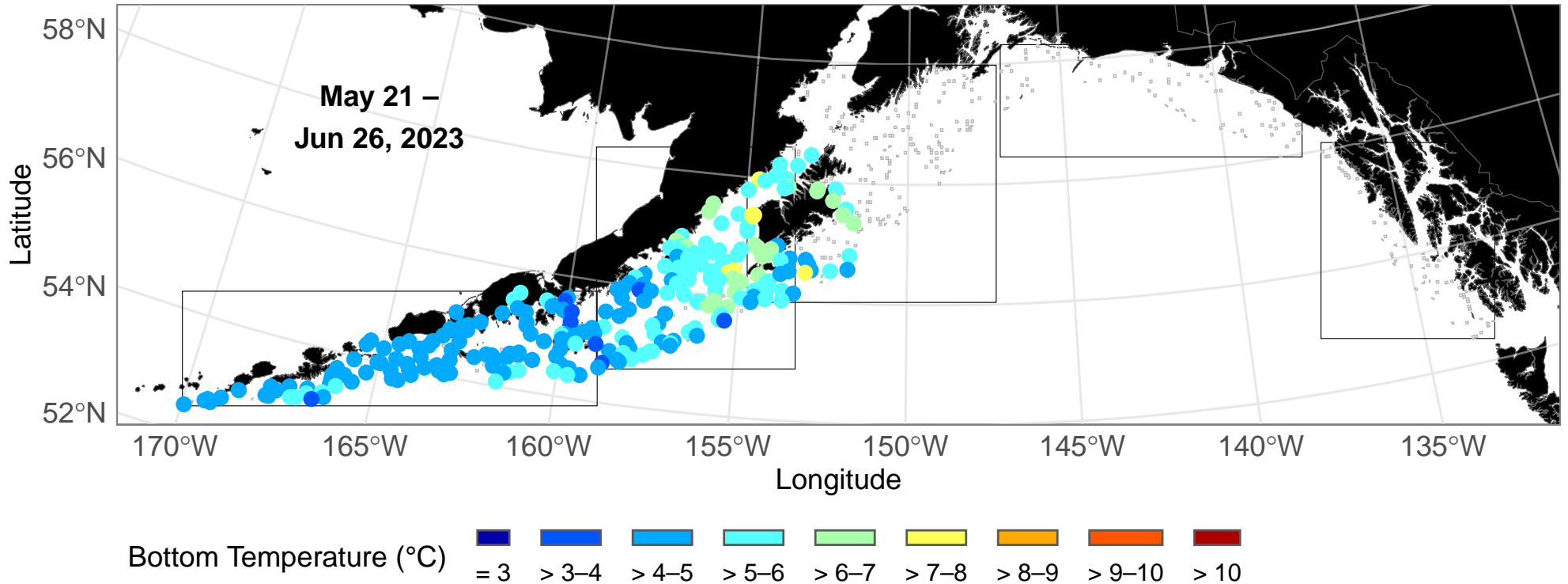
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-June 27. On June 27, stations 198-144 (58.54°N, -153.65°W; >7-8°C), 199-154 (59.01°N, -153.56°W; >7-8°C), 200-142 (58.44°N, -153.48°W; >6-7°C), and 200-143 (58.49°N, -153.48°W; >6-7°C) were surveyed by the F/V *Alaska Provider* and stations 211-105 (56.75°N, -152.57°W; >5-6°C), 211-98 (56.44°N, -152.56°W; >4-5°C), 212-105 (56.75°N, -152.49°W; >5-6°C), 214-105 (56.75°N, -152.32°W; >5-6°C), and 217-106 (56.8°N, -152.07°W; >5-6°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

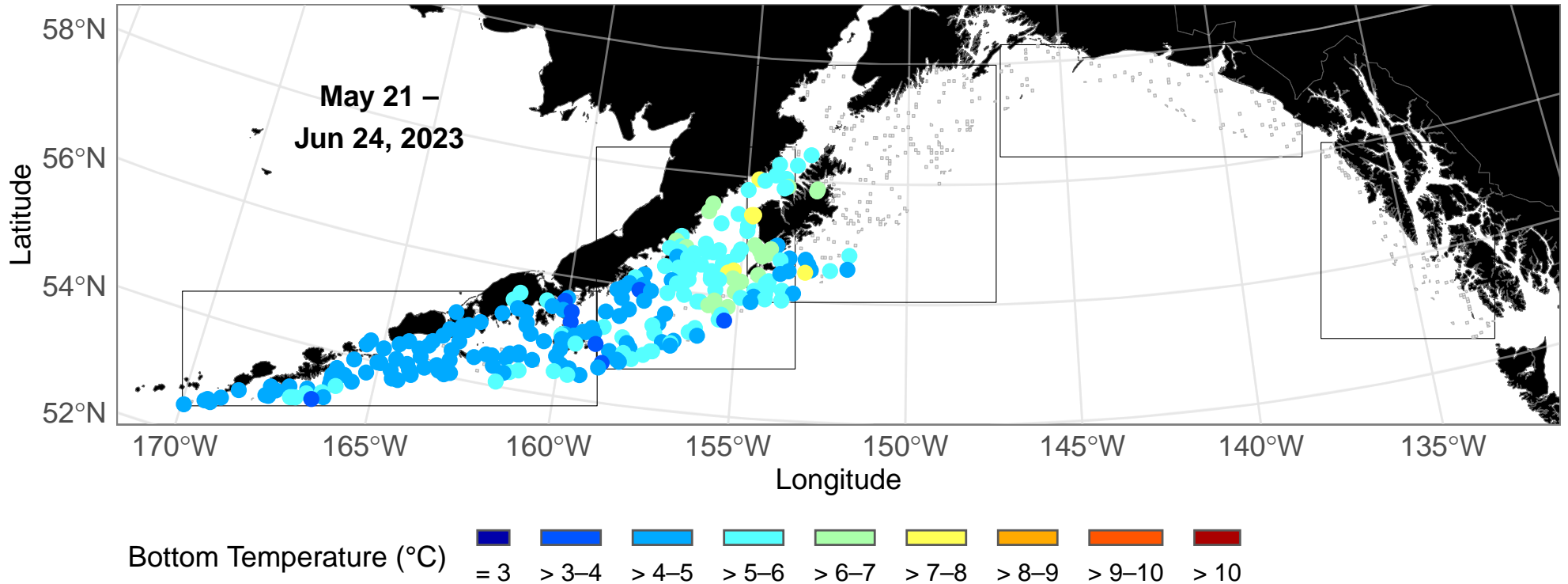
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-June 26. On June 26, a station 215-130 (57.9°N, -152.24°W; >5-6°C) was surveyed by the *F/V Alaska Provider* and stations 214-126 (57.7°N, -152.32°W; >6-7°C), 218-121 (57.47°N, -151.99°W; >6-7°C), 219-123 (57.57°N, -151.9°W; >5-6°C), and 222-118 (57.34°N, -151.66°W; >6-7°C) were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

# 2023 Bottom Temperature (°C)

NOAA Fisheries Gulf of Alaska Bottom Trawl Survey

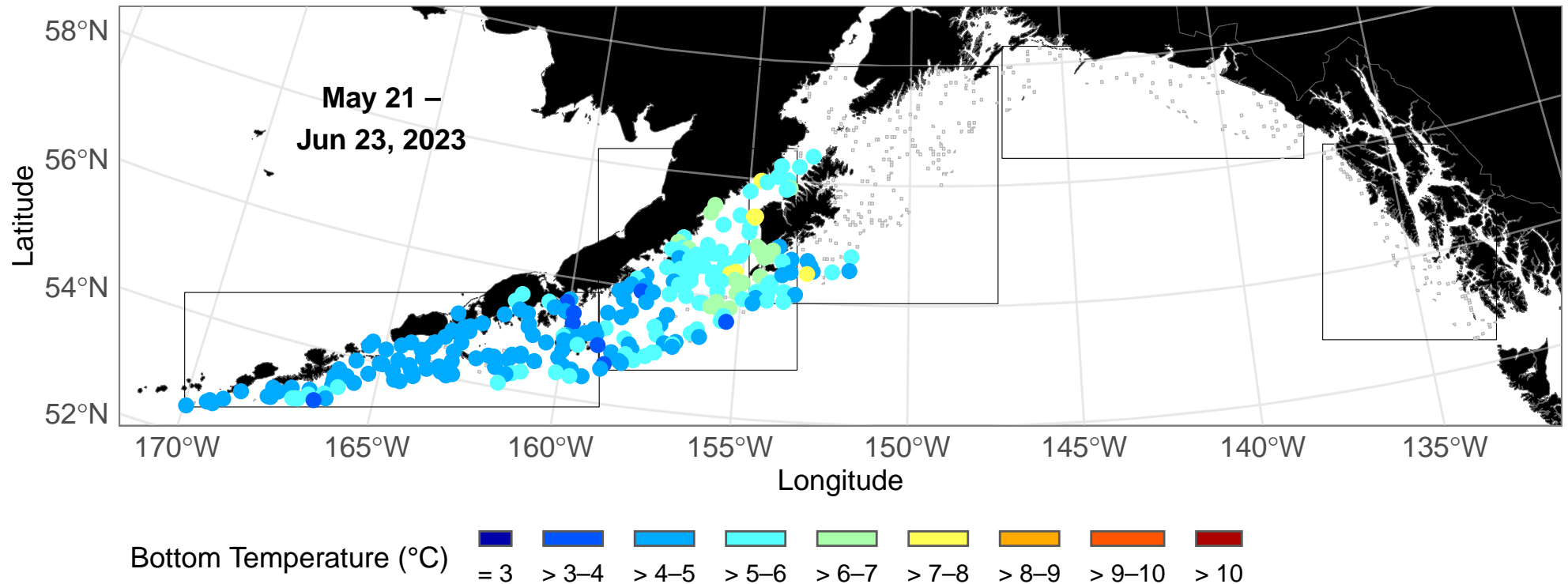


NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-June 24. On June 24, stations 208-129 (57.85°N, -152.83°W; >6-7°C) and 208-130 (57.88°N, -152.81°W; >6-7°C) were surveyed by the F/V *Alaska Provider*. No stations were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*



## 2023 Bottom Temperature (°C)

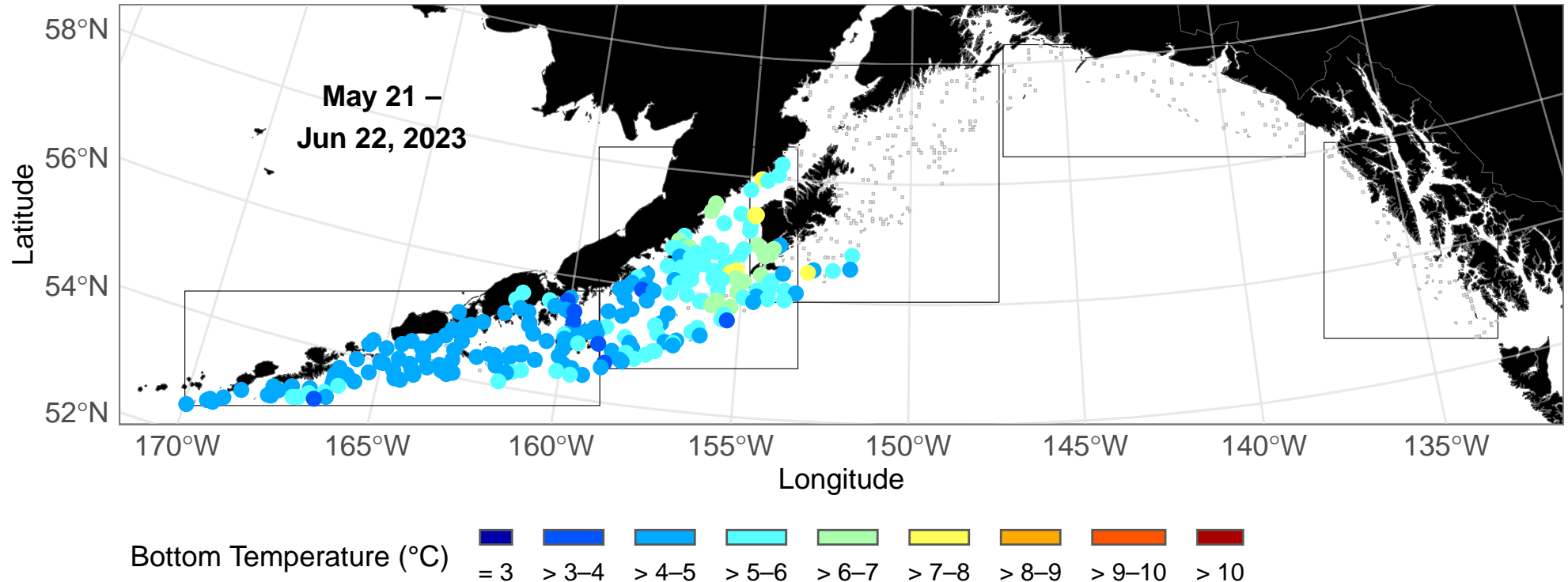
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-June 23. On June 23, stations 196-130 (57.88°N, -153.8°W; >5-6°C), 196-130 (57.86°N, -153.85°W; >5-6°C), 196-133 (58.02°N, -153.81°W; >5-6°C), 200-138 (58.26°N, -153.48°W; >5-6°C), 205-142 (58.44°N, -153.07°W; >5-6°C), and 197-130 (57.9°N, -153.73°W; >6-7°C) were surveyed by the F/V *Alaska Provider* and stations 196-103 (56.66°N, -153.83°W; >5-6°C), 199-104 (56.71°N, -153.56°W; >4-5°C), 199-99 (56.49°N, -153.57°W; >4-5°C), 205-104 (56.7°N, -153.07°W; >4-5°C), and 206-102 (56.62°N, -152.98°W; >4-5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

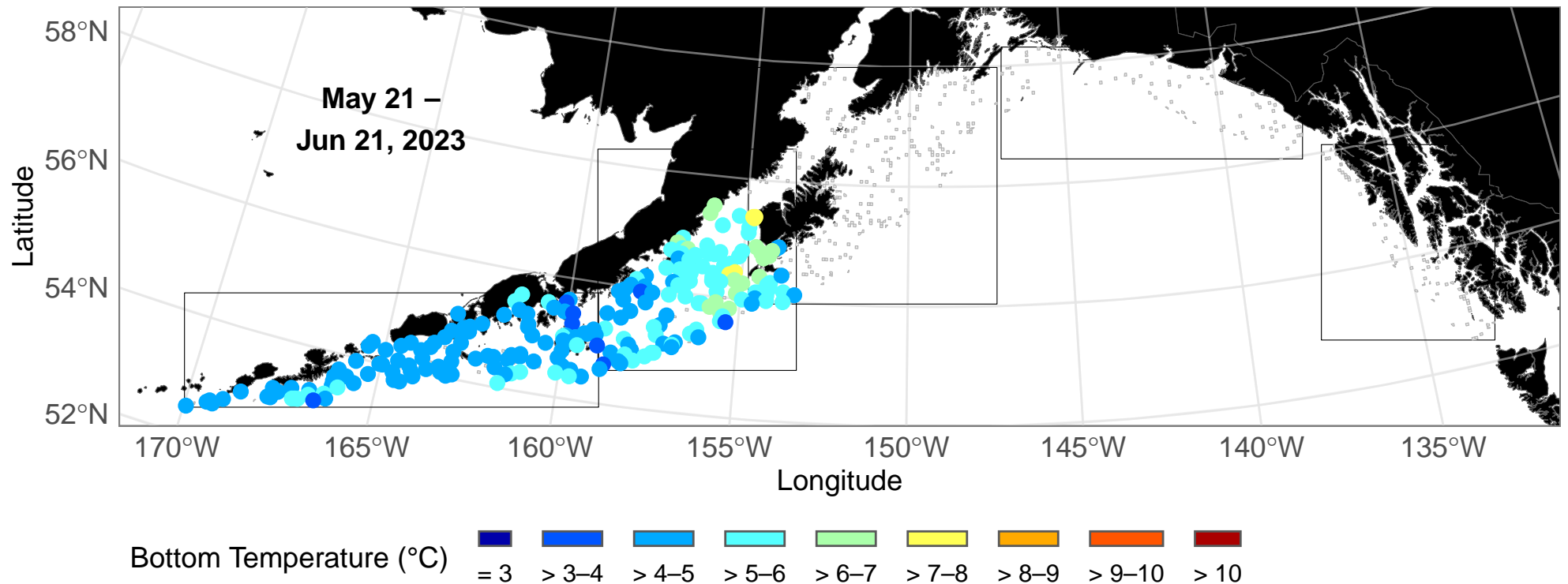
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-June 22. On June 22, stations 182-128 (57.79°N, -154.97°W; >5–6°C), 186-132 (57.98°N, -154.66°W; >7–8°C), 188-132 (57.97°N, -154.47°W; >5–6°C), 192-134 (58.07°N, -154.14°W; >5–6°C), and 193-138 (58.25°N, -154.05°W; >5–6°C) were surveyed by the F/V *Alaska Provider* and stations 207-100 (56.53°N, -152.9°W; >4–5°C), 214-100 (56.53°N, -152.32°W; >5–6°C), 221-106 (56.8°N, -151.75°W; >5–6°C), 205-99 (56.48°N, -153.07°W; >7–8°C), and 220-101 (56.57°N, -151.8°W; >4–5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

## 2023 Bottom Temperature (°C)

NOAA Fisheries Gulf of Alaska Bottom Trawl Survey

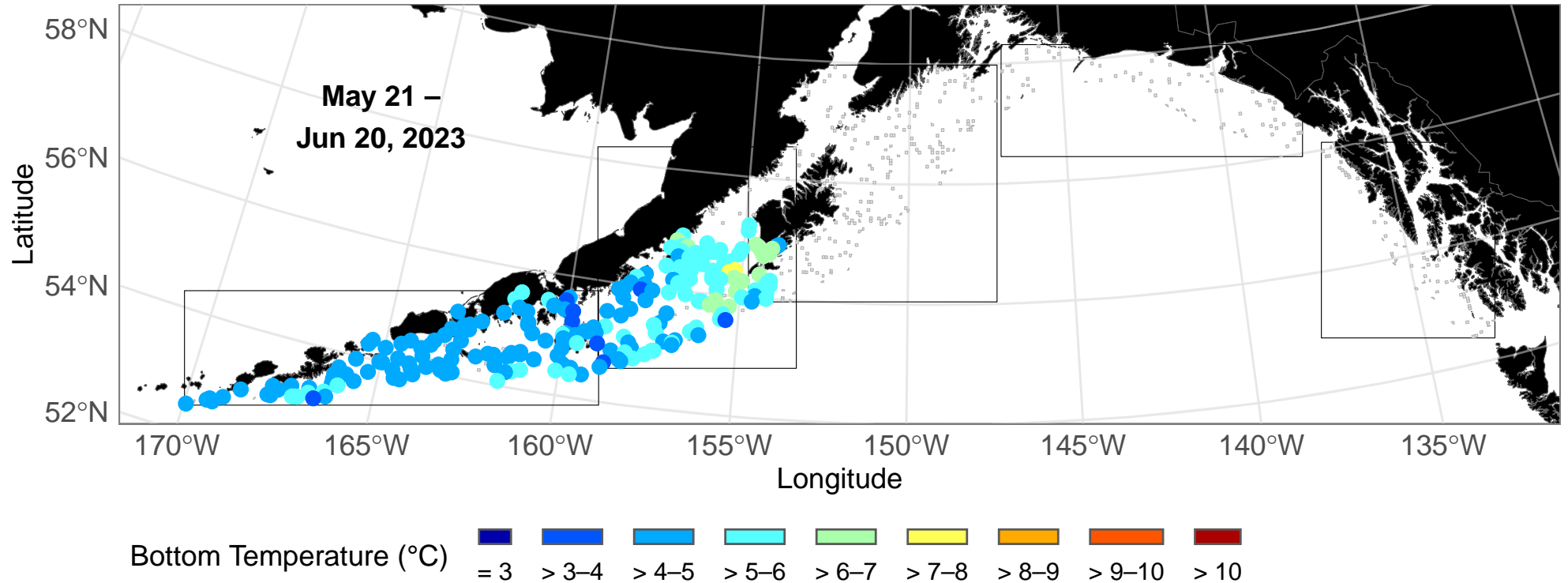


NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-June 21. On June 21, stations 173-115 (57.2°N, -155.71°W; >5-6°C), 179-119 (57.38°N, -155.21°W; >5-6°C), 184-119 (57.38°N, -154.8°W; >7-8°C), 184-119 (57.36°N, -154.76°W; >7-8°C), 185-119 (57.38°N, -154.73°W; >7-8°C), 168-119 (57.38°N, -156.12°W; >6-7°C), and 169-122 (57.52°N, -156.02°W; >6-7°C) were surveyed by the F/V *Alaska Provider* and stations 196-98 (56.44°N, -153.81°W; >4-5°C), 197-88 (56°N, -153.73°W; >5-6°C), 201-91 (56.13°N, -153.39°W; >4-5°C), and 197-92 (56.16°N, -153.73°W; >5-6°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots.

Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

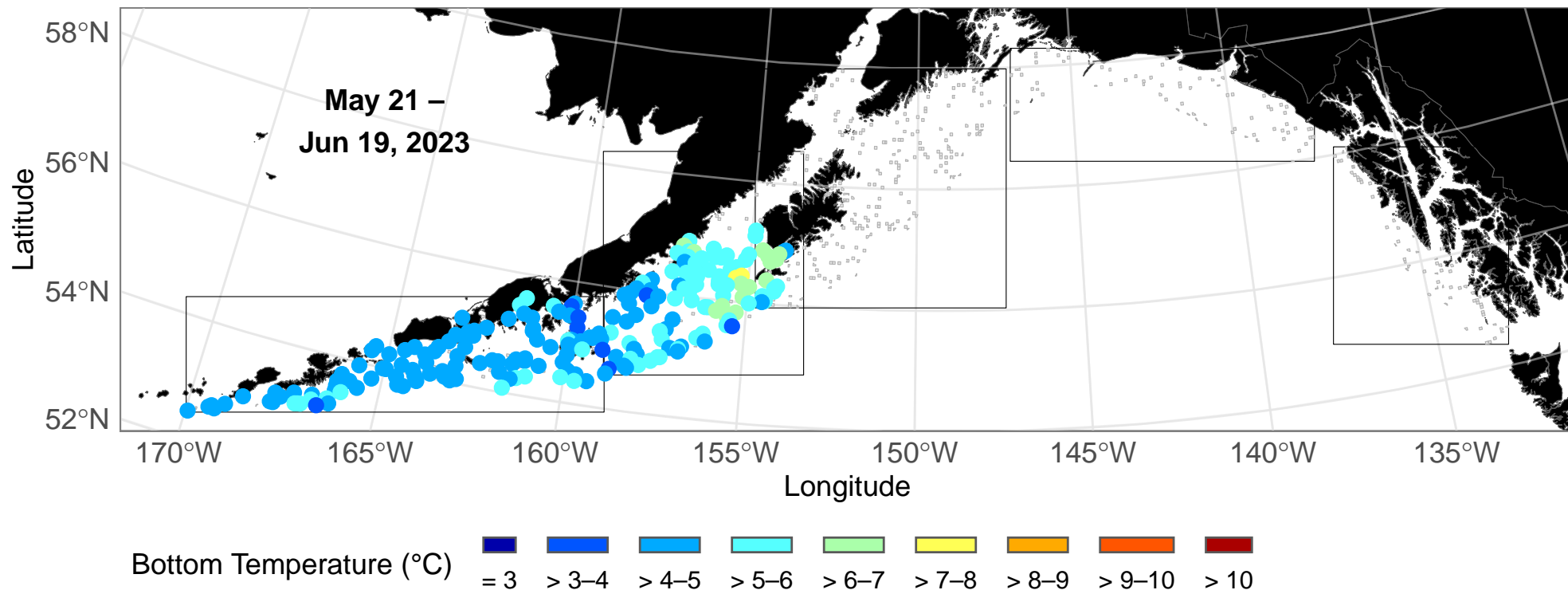
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–June 20. On June 20, stations 191-88 (56°N, -154.22°W; >5–6°C), 191-90 (56.09°N, -154.22°W; >5–6°C), 192-93 (56.22°N, -154.14°W; >5–6°C), 188-91 (56.13°N, -154.47°W; >5–6°C), and 186-87 (55.94°N, -154.64°W; >4–5°C) were surveyed by the F/V *Ocean Explorer*. No stations were surveyed by the F/V *Alaska Provider*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

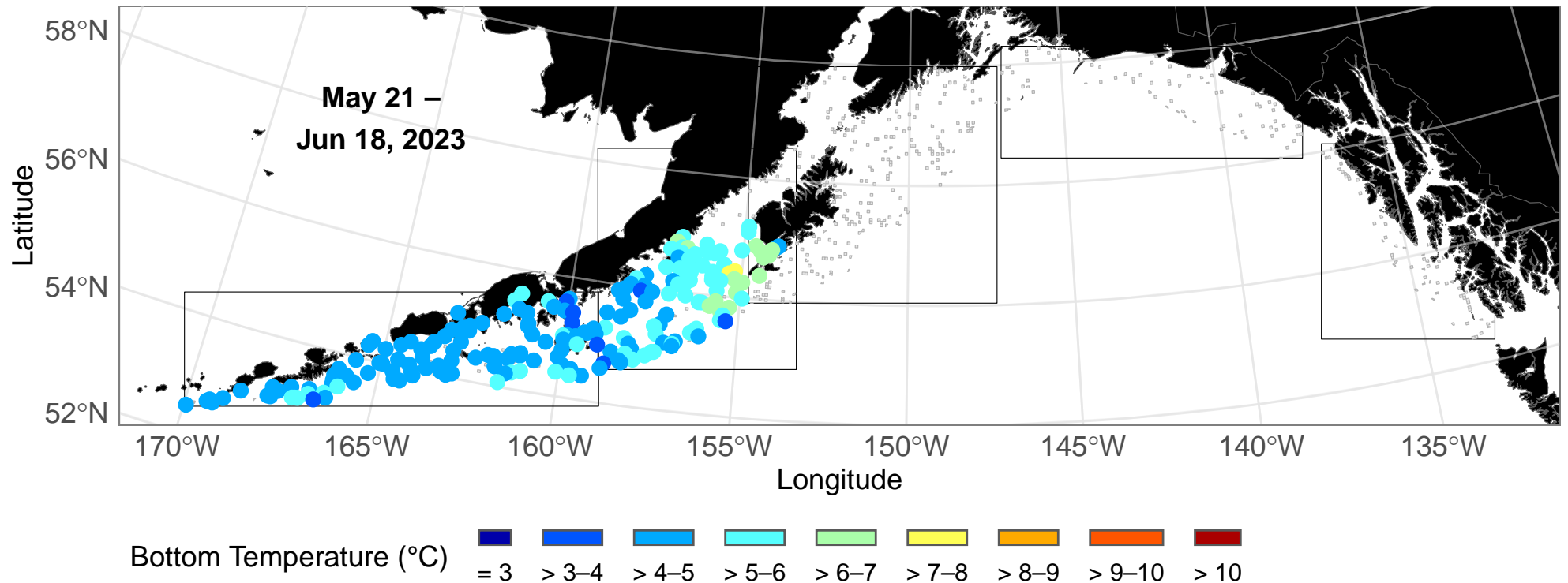
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-June 19. On June 19, stations 176-99 (56.48°N, -155.46°W; >5-6°C), 177-101 (56.57°N, -155.38°W; >5-6°C), and 180-104 (56.71°N, -155.13°W; >5-6°C) were surveyed by the F/V *Alaska Provider* and stations 187-91 (56.13°N, -154.55°W; >5-6°C), 188-89 (56.05°N, -154.47°W; >5-6°C), 191-93 (56.22°N, -154.22°W; >5-6°C), 191-94 (56.26°N, -154.22°W; >5-6°C), 192-95 (56.31°N, -154.14°W; >5-6°C), and 187-89 (56.03°N, -154.56°W; >4-5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

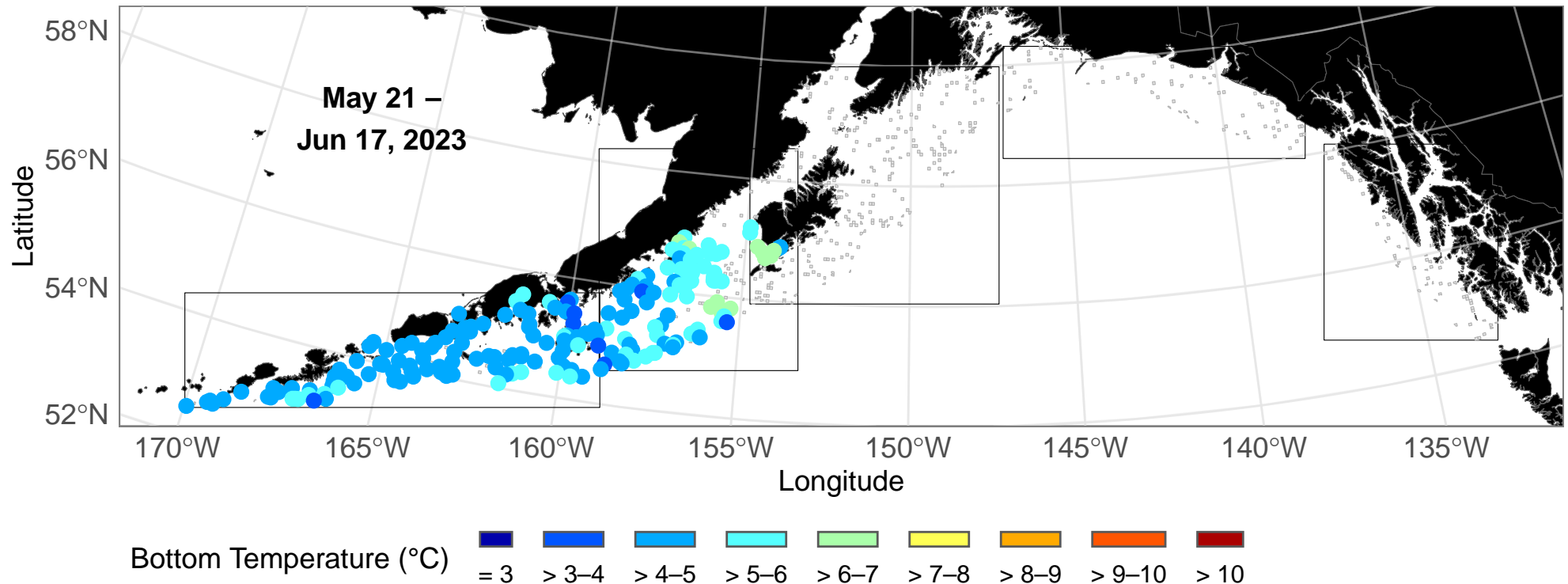
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-June 18. On June 18, stations 175-100 (56.54°N, -155.56°W; >5-6°C), 175-97 (56.4°N, -155.55°W; >5-6°C), 177-97 (56.4°N, -155.38°W; >7-8°C), 179-98 (56.44°N, -155.21°W; >7-8°C), 181-106 (56.8°N, -155.05°W; >5-6°C), 188-97 (56.4°N, -154.47°W; >6-7°C), and 179-95 (56.31°N, -155.21°W; >6-7°C) were surveyed by the F/V *Alaska Provider* and stations 168-85 (55.87°N, -156.12°W; >5-6°C), 180-90 (56.09°N, -155.13°W; >6-7°C), 167-85 (55.87°N, -156.21°W; >5-6°C), 173-90 (56.09°N, -155.71°W; >5-6°C), 182-94 (56.26°N, -154.97°W; >6-7°C), and 182-88 (55.99°N, -154.94°W; >5-6°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

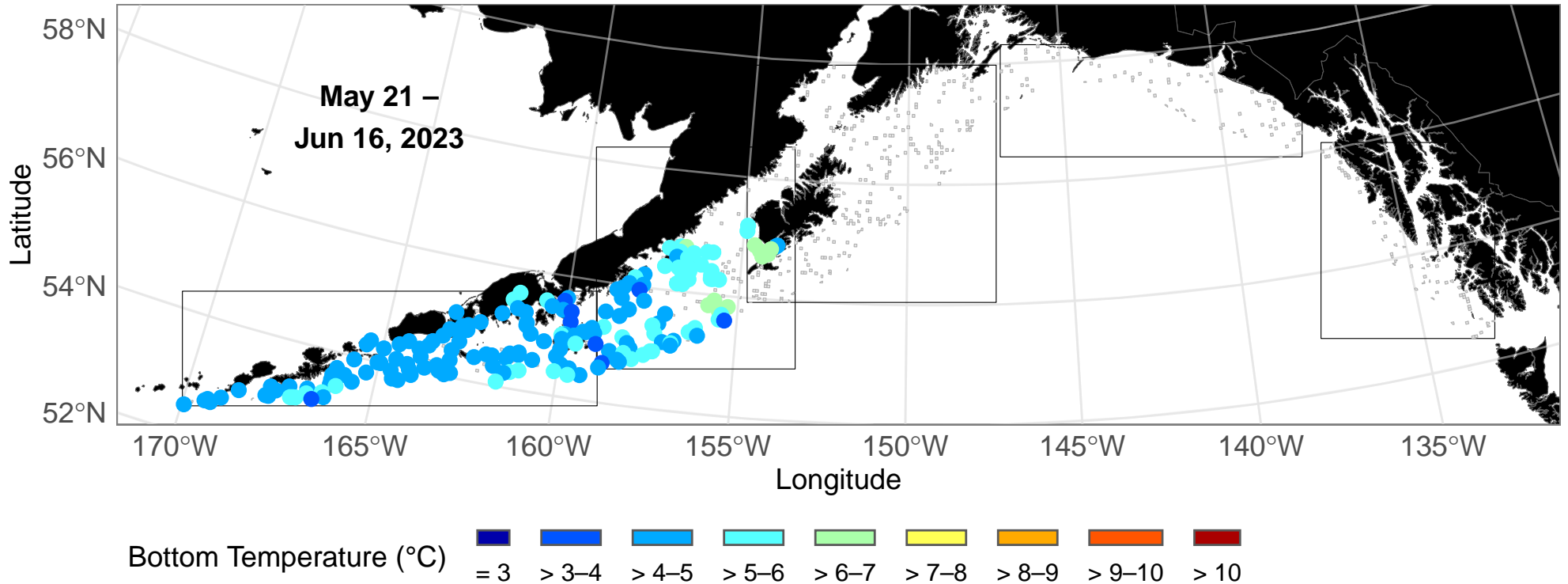
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-June 17. On June 17, stations 168-107 (56.84°N, -156.12°W; >5–6°C), 173-105 (56.75°N, -155.71°W; >5–6°C), 157-107 (56.84°N, -157.03°W; >6–7°C), 157-107 (56.82°N, -156.99°W; >6–7°C), and 159-109 (56.93°N, -156.88°W; >5–6°C) were surveyed by the F/V *Alaska Provider* and stations 150-87 (55.96°N, -157.61°W; >4–5°C), 157-92 (56.18°N, -157.03°W; >4–5°C), 162-87 (55.96°N, -156.62°W; >5–6°C), and 156-87 (55.96°N, -157.12°W; >5–6°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

## 2023 Bottom Temperature (°C)

NOAA Fisheries Gulf of Alaska Bottom Trawl Survey

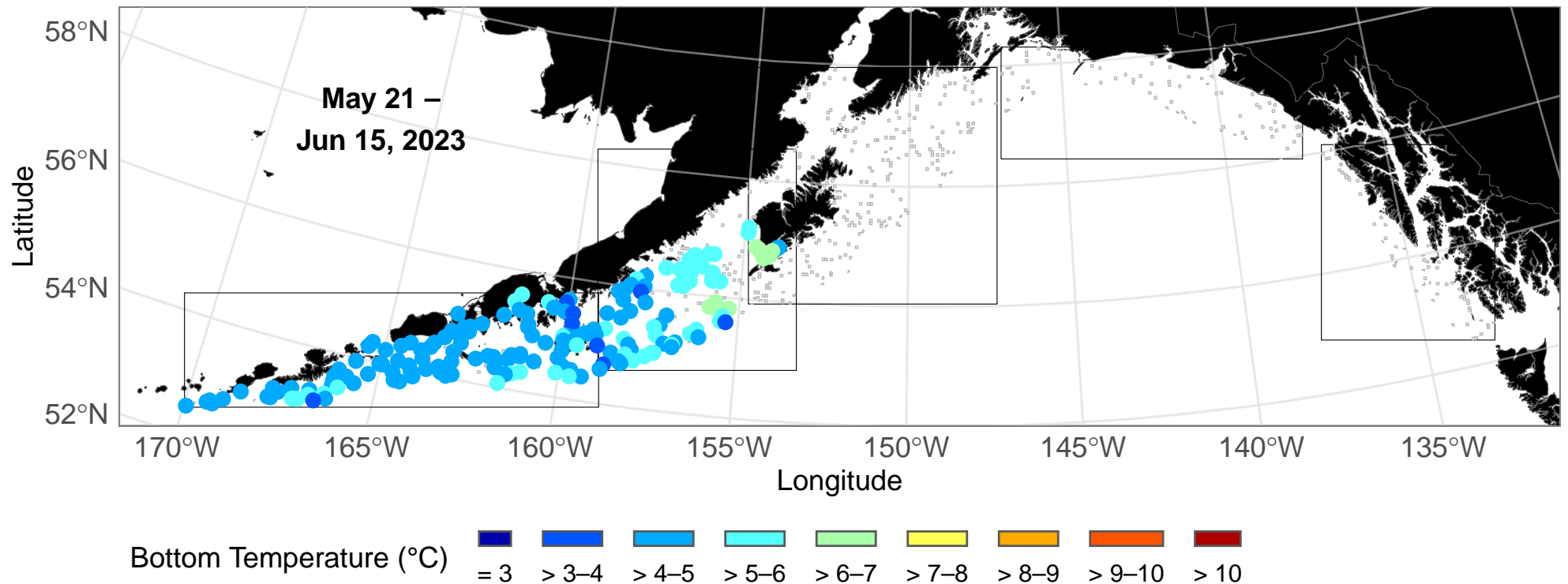


NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-June 16. On June 16, stations 155-104 (56.71°N, -157.2°W; >5-6°C), 158-101 (56.57°N, -156.95°W; >4-5°C), 159-105 (56.75°N, -156.87°W; >5-6°C), 159-103 (56.66°N, -156.87°W; >5-6°C), and 161-105 (56.75°N, -156.7°W; >6-7°C) were surveyed by the F/V *Alaska Provider*. No stations were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries



## 2023 Bottom Temperature (°C)

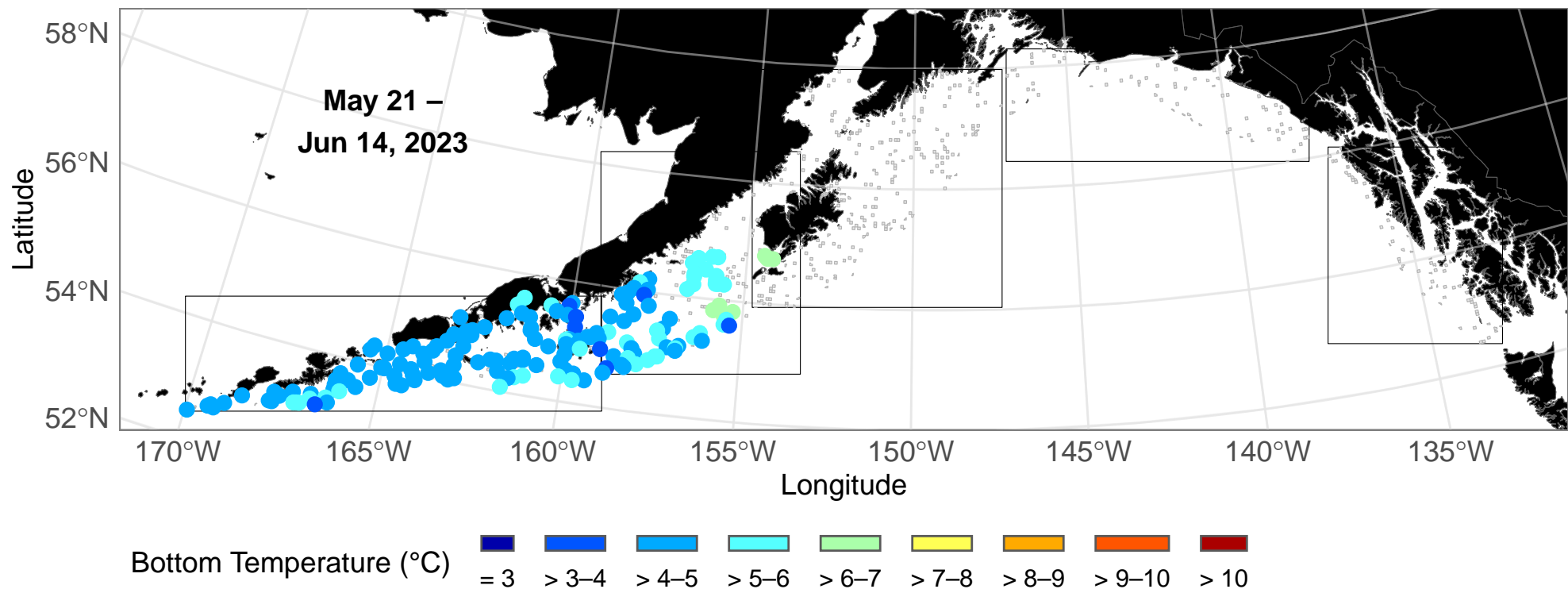
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-June 15. On June 15, stations 183-115 (57.2°N, -154.89°W; >5-6°C), 186-108 (56.89°N, -154.64°W; >6-7°C), 189-104 (56.71°N, -154.39°W; >6-7°C), 192-107 (56.84°N, -154.14°W; >6-7°C), 194-108 (56.91°N, -153.95°W; >4-5°C), 194-108 (56.89°N, -154°W; >4-5°C), and 183-113 (57.11°N, -154.9°W; >5-6°C) were surveyed by the F/V *Alaska Provider* and stations 154-97 (56.4°N, -157.28°W; >5-6°C), 159-97 (56.4°N, -156.87°W; >5-6°C), 161-94 (56.26°N, -156.72°W; >5-6°C), and 159-91 (56.13°N, -156.87°W; >5-6°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

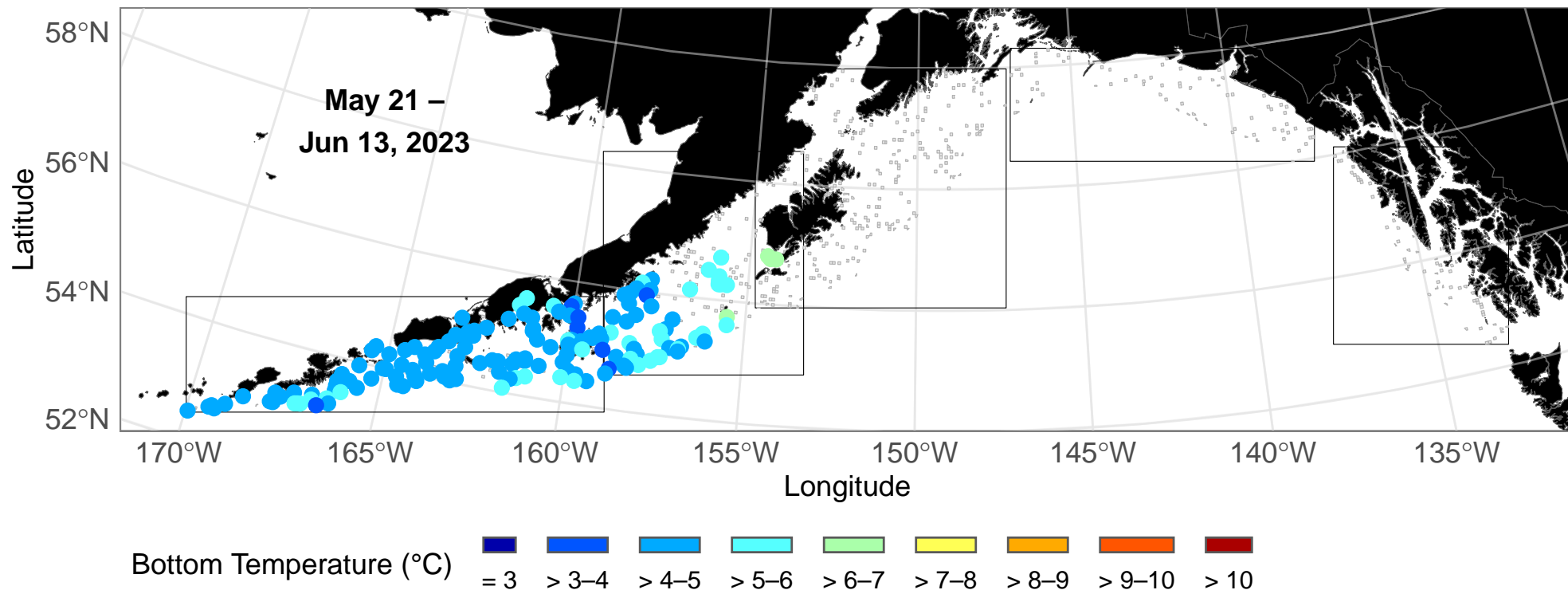
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-June 14. On June 14, stations 163-93 (56.22°N, -156.54°W; >5-6°C), 163-97 (56.4°N, -156.54°W; >5-6°C), 164-103 (56.66°N, -156.45°W; >5-6°C), 169-104 (56.71°N, -156.04°W; >5-6°C), 163-96 (56.35°N, -156.54°W; >5-6°C), and 162-101 (56.57°N, -156.62°W; >5-6°C) were surveyed by the F/V *Alaska Provider* and stations 171-84 (55.83°N, -155.88°W; >6-7°C), 176-81 (55.69°N, -155.47°W; >5-6°C), 177-79 (55.59°N, -155.37°W; >3-4°C), 178-84 (55.83°N, -155.3°W; >6-7°C), and 173-86 (55.91°N, -155.71°W; >6-7°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

## 2023 Bottom Temperature (°C)

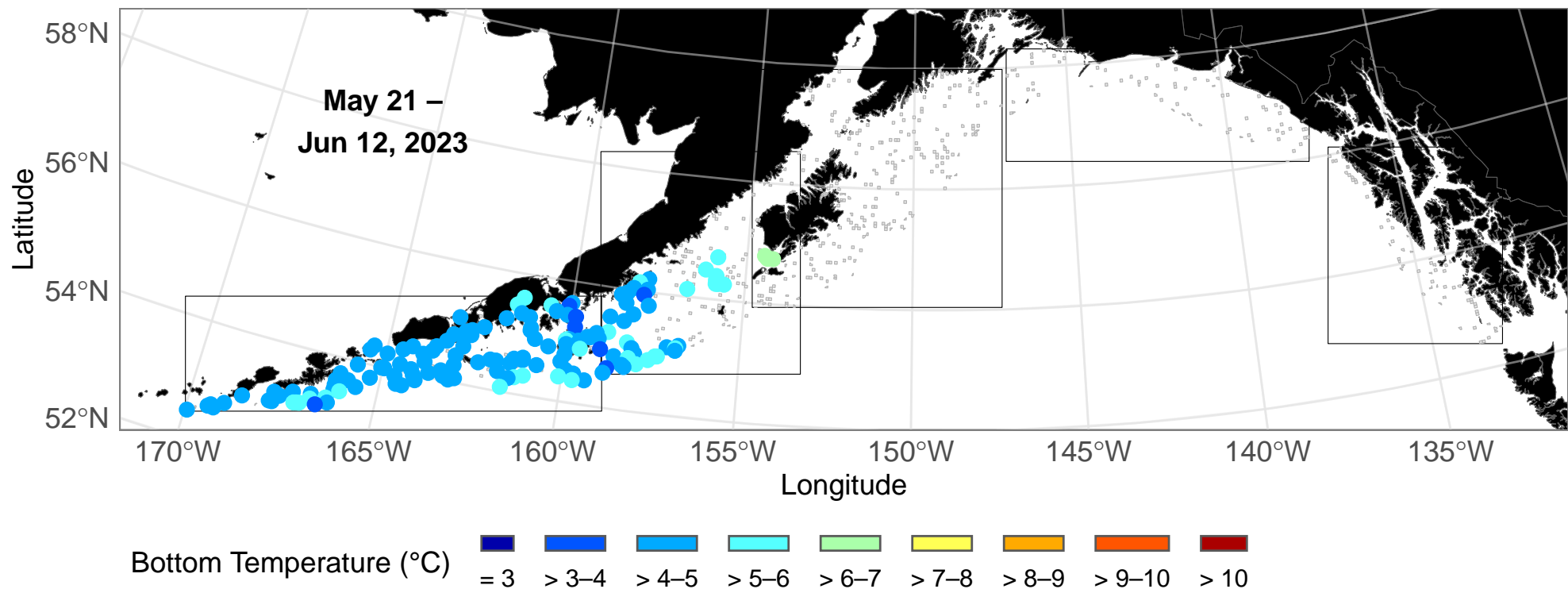
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–June 13. On June 13, stations 152-74 (55.39°N, -157.45°W; >5–6°C), 153-71 (55.26°N, -157.36°W; >5–6°C), 154-75 (55.43°N, -157.28°W; >4–5°C), and 156-79 (55.61°N, -157.12°W; >4–5°C) were surveyed by the F/V *Alaska Provider* and stations 167-75 (55.43°N, -156.2°W; >5–6°C), 168-72 (55.3°N, -156.12°W; >4–5°C), 175-79 (55.6°N, -155.53°W; >5–6°C), 175-82 (55.74°N, -155.54°W; >6–7°C), and 165-73 (55.35°N, -156.37°W; >5–6°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

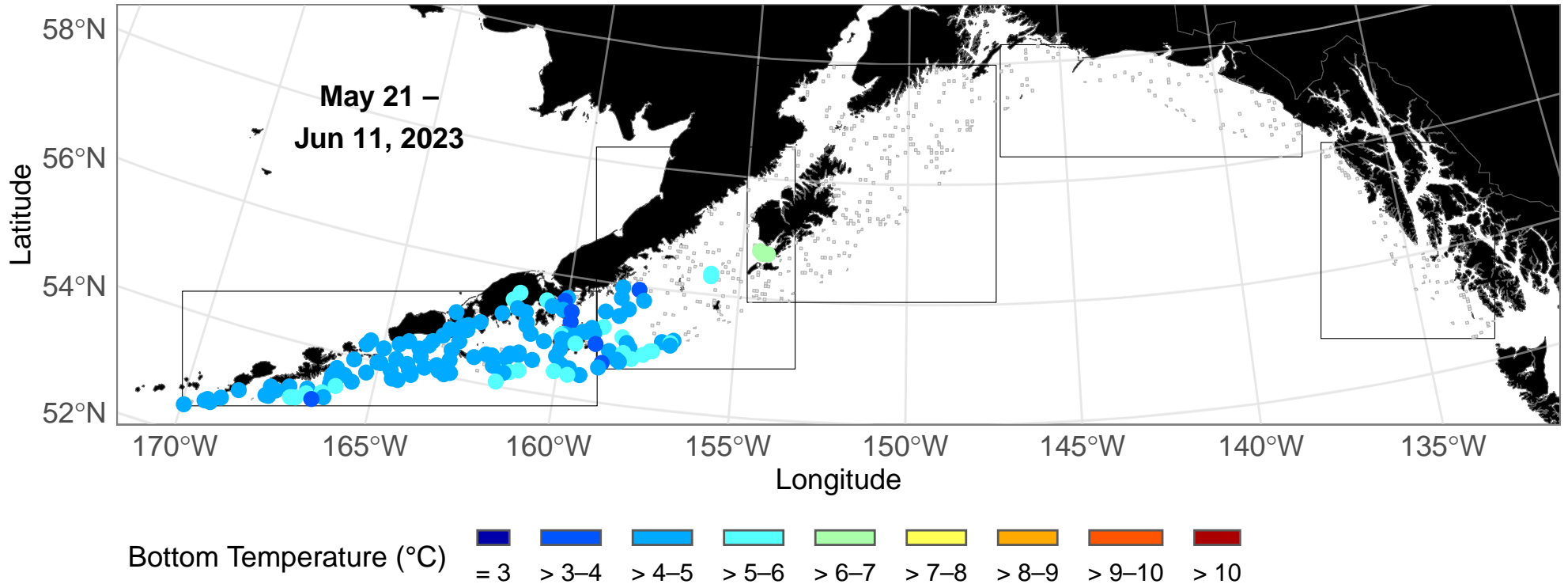
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–June 12. On June 12, stations 147-93 (56.22°N, -157.86°W; >4–5°C), 161-91 (56.13°N, -156.7°W; >5–6°C), 138-86 (55.91°N, -158.6°W; >4–5°C), 142-89 (56.04°N, -158.27°W; >4–5°C), 144-91 (56.15°N, -158.12°W; >5–6°C), 144-91 (56.13°N, -158.1°W; >5–6°C), and 147-89 (56.04°N, -157.86°W; >4–5°C) were surveyed by the F/V *Alaska Provider* and stations 167-99 (56.48°N, -156.21°W; >5–6°C), 171-104 (56.71°N, -155.88°W; >5–6°C), 171-94 (56.26°N, -155.88°W; >5–6°C), 171-97 (56.4°N, -155.88°W; >5–6°C), 172-94 (56.27°N, -155.81°W; >5–6°C), and 174-94 (56.26°N, -155.63°W; >5–6°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

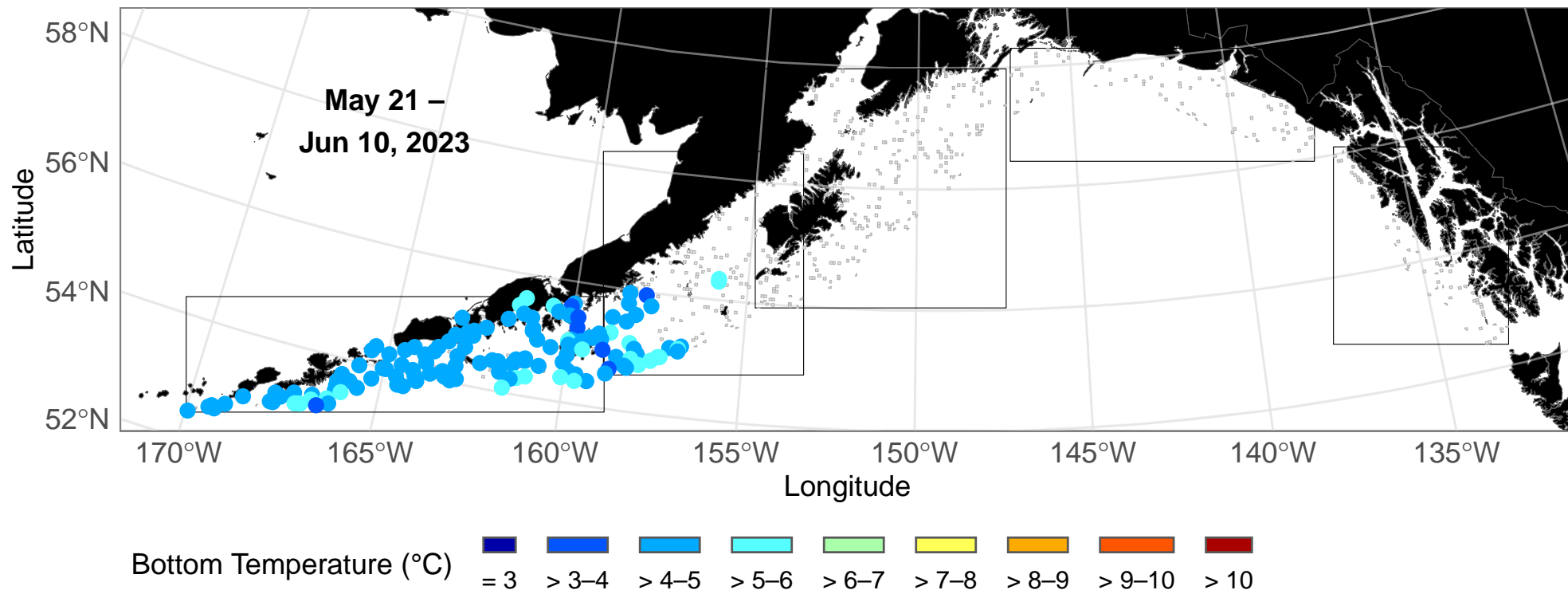
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–June 11. On June 11, stations 191-105 (56.75°N, -154.22°W; >6–7°C), 189-105 (56.75°N, -154.39°W; >6–7°C), and 188-106 (56.8°N, -154.47°W; >6–7°C) were surveyed by the *F/V Ocean Explorer*. No stations were surveyed by the *F/V Alaska Provider*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

## 2023 Bottom Temperature (°C)

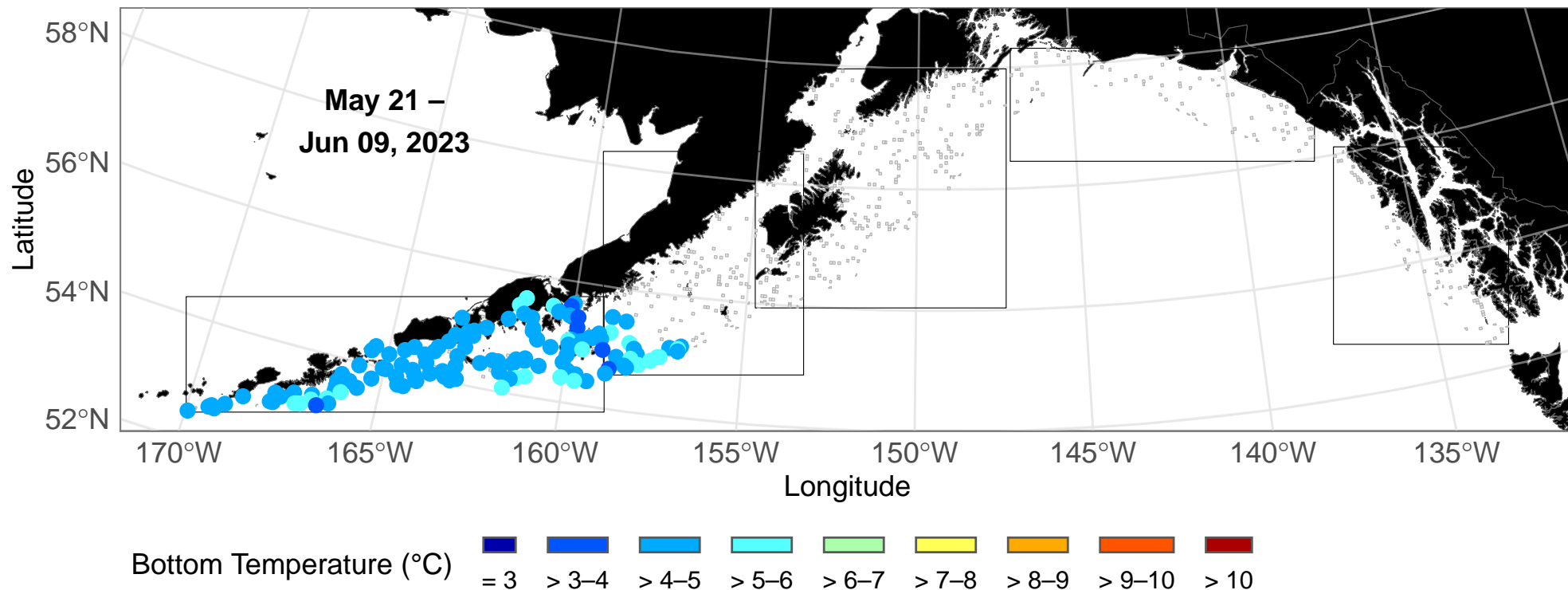
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–June 10. On June 10, stations 140-83 (55.78°N, -158.44°W; >4–5°C), 140-87 (55.96°N, -158.44°W; >4–5°C), 143-79 (55.61°N, -158.19°W; >4–5°C), 146-87 (55.95°N, -157.95°W; >3–4°C), and 148-83 (55.78°N, -157.78°W; >4–5°C) were surveyed by the F/V *Alaska Provider* and stations 171-95 (56.31°N, -155.88°W; >5–6°C) and 171-96 (56.35°N, -155.88°W; >5–6°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

## 2023 Bottom Temperature (°C)

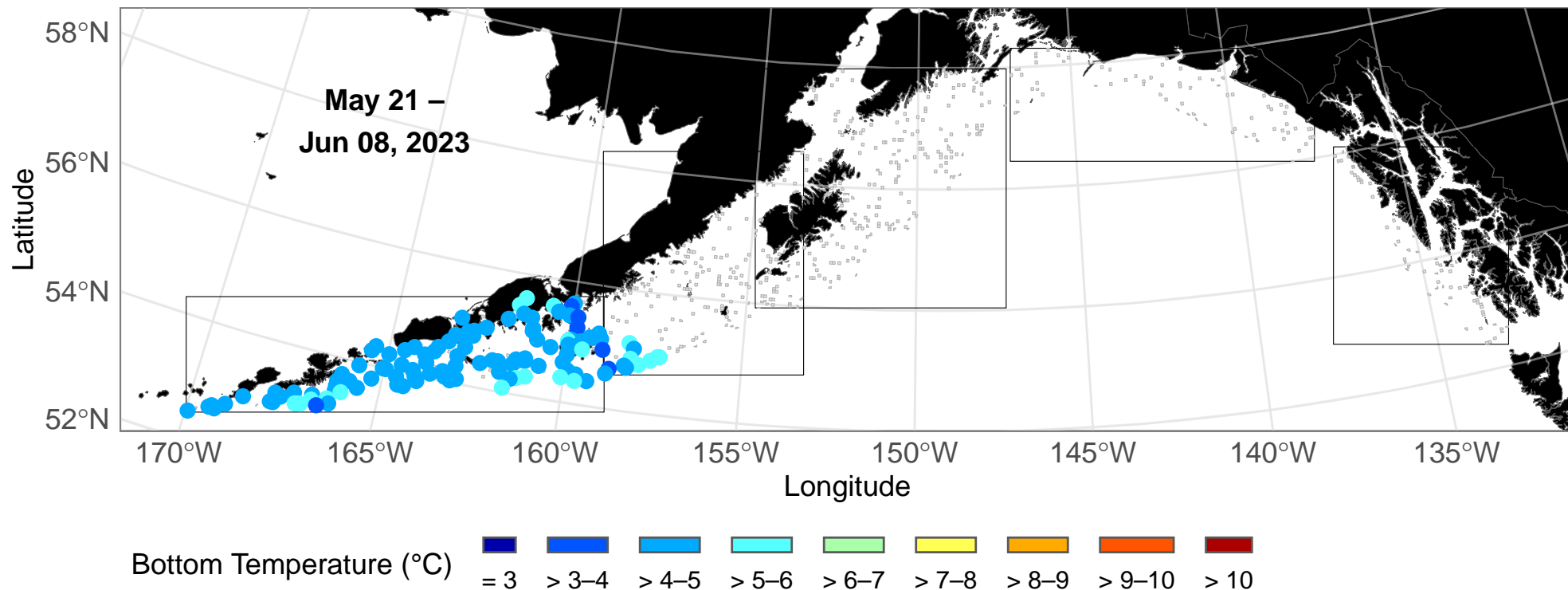
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–June 9. On June 9, stations 135-71 (55.26°N, -158.85°W; >5–6°C), 135-77 (55.52°N, -158.85°W; >4–5°C), 138-62 (54.88°N, -158.6°W; >4–5°C), 140-76 (55.48°N, -158.44°W; >4–5°C), and 145-64 (54.96°N, -158.02°W; >4–5°C) were surveyed by the F/V *Alaska Provider* and stations 156-68 (55.13°N, -157.12°W; >4–5°C), 159-68 (55.13°N, -156.87°W; >5–6°C), 160-69 (55.18°N, -156.78°W; >4–5°C), and 159-67 (55.09°N, -156.87°W; >4–5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

## 2023 Bottom Temperature (°C)

NOAA Fisheries Gulf of Alaska Bottom Trawl Survey

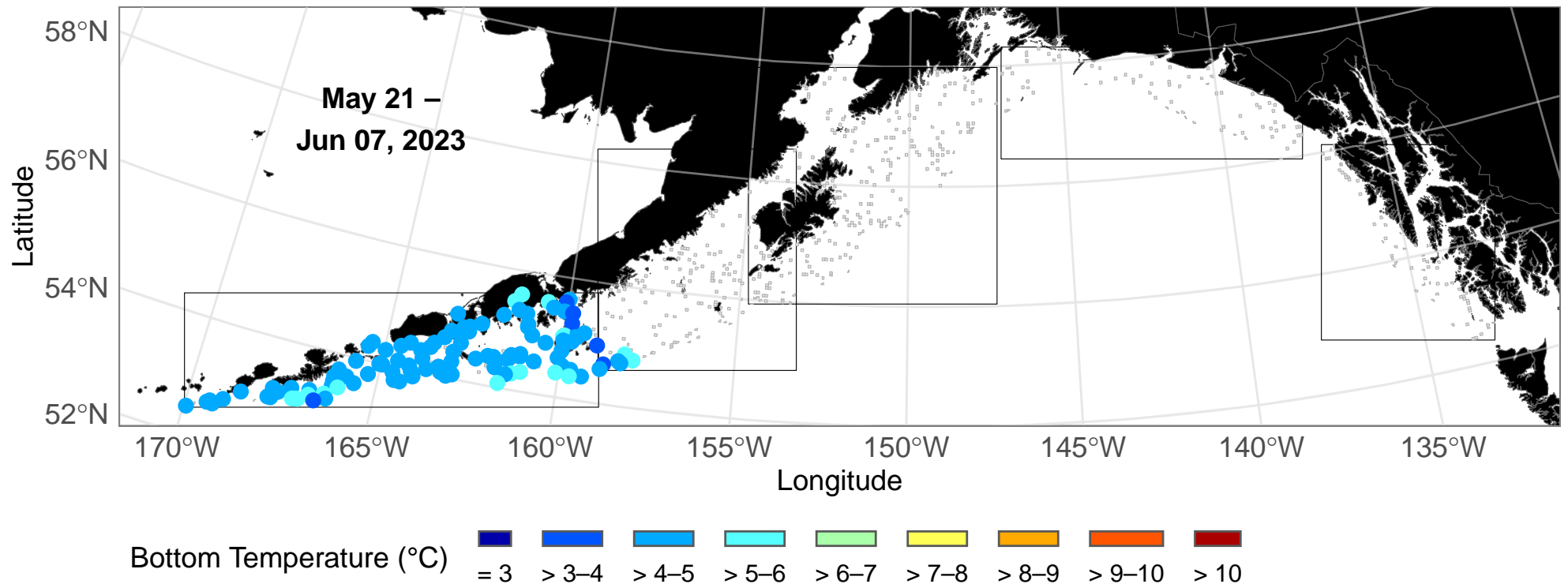


NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–June 8. On June 8, stations 122-66 (55.05°N, -159.93°W; >4–5°C), 126-63 (54.92°N, -159.6°W; >5–6°C), 129-68 (55.13°N, -159.35°W; >4–5°C), 131-70 (55.22°N, -159.18°W; >4–5°C), and 132-68 (55.13°N, -159.1°W; >4–5°C) were surveyed by the *F/V Alaska Provider* and stations 142-68 (55.13°N, -158.27°W; >5–6°C), 150-62 (54.89°N, -157.62°W; >5–6°C), 152-64 (54.96°N, -157.42°W; >5–6°C), 153-64 (54.96°N, -157.36°W; >5–6°C), and 144-66 (55.05°N, -158.12°W; >4–5°C) were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*



## 2023 Bottom Temperature (°C)

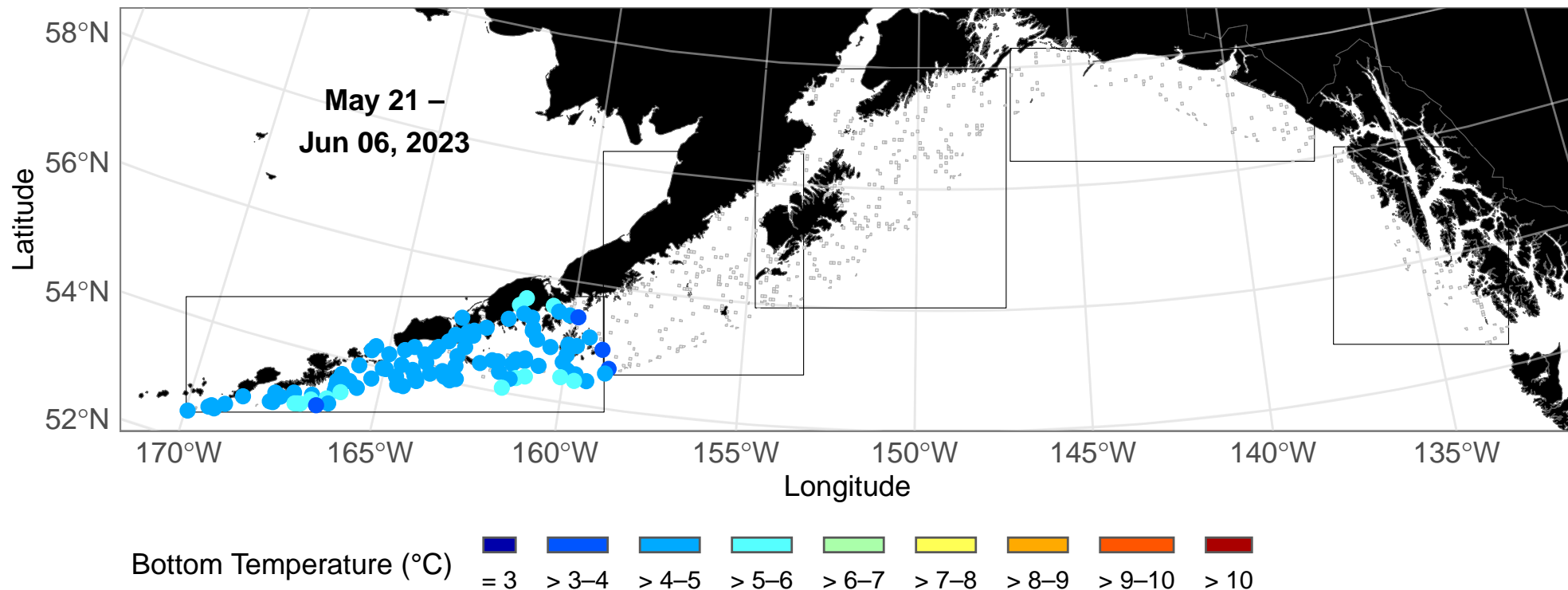
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–June 7. On June 7, stations 120-79 (55.6°N, -160.09°W; >3–4°C), 121-66 (55.05°N, -159.99°W; >5–6°C), 121-66 (55.03°N, -160.03°W; >5–6°C), 125-66 (55.05°N, -159.68°W; >4–5°C), 125-66 (55.05°N, -159.64°W; >4–5°C), 121-80 (55.65°N, -160.01°W; >4–5°C), and 123-71 (55.26°N, -159.83°W; >3–4°C) were surveyed by the F/V *Alaska Provider* and stations 142-58 (54.72°N, -158.28°W; >4–5°C), 143-62 (54.88°N, -158.19°W; >5–6°C), 146-60 (54.79°N, -157.94°W; >5–6°C), 143-60 (54.79°N, -158.19°W; >5–6°C), and 141-59 (54.75°N, -158.35°W; >4–5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

## 2023 Bottom Temperature (°C)

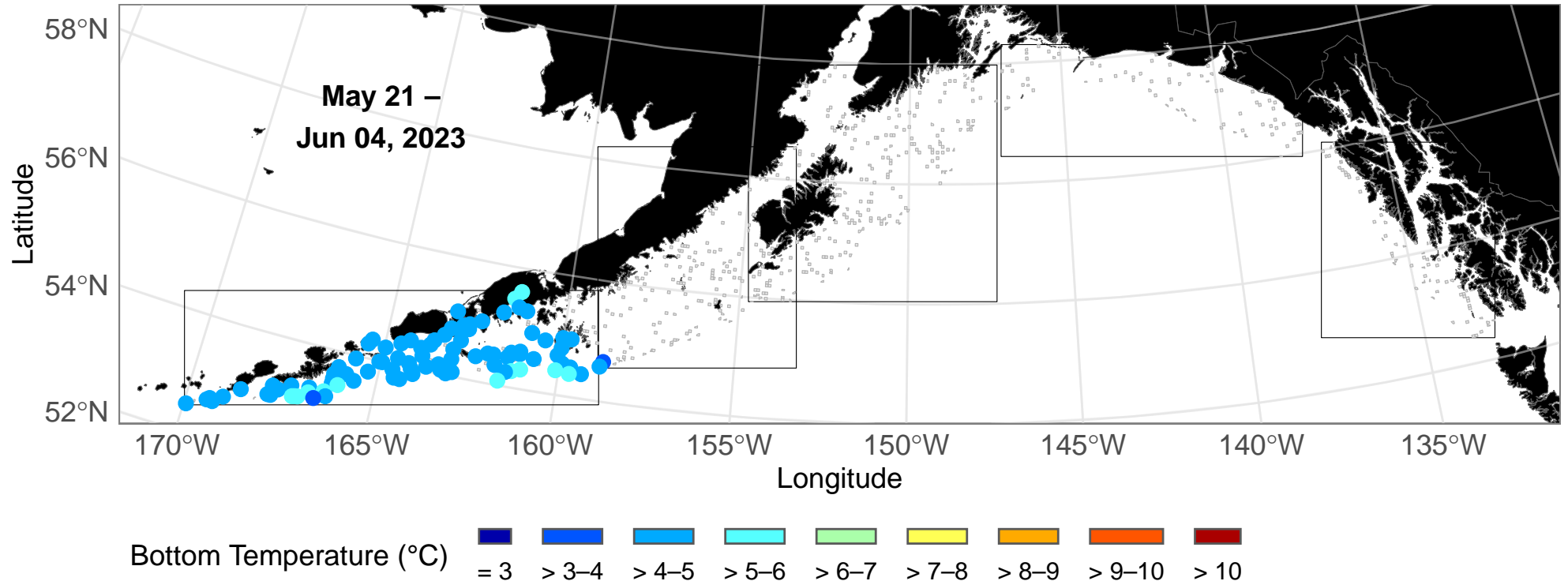
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–June 6. On June 6, stations 108-67 (55.09°N, -161.08°W; >4–5°C), 108-68 (55.13°N, -161.08°W; >4–5°C), 114-78 (55.56°N, -160.6°W; >5–6°C), and 116-76 (55.48°N, -160.42°W; >4–5°C) were surveyed by the F/V *Alaska Provider* and stations 120-75 (55.44°N, -160.1°W; >4–5°C), 123-75 (55.43°N, -159.84°W; >3–4°C), 128-68 (55.13°N, -159.43°W; >4–5°C), and 133-64 (54.96°N, -159.02°W; >3–4°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

## 2023 Bottom Temperature (°C)

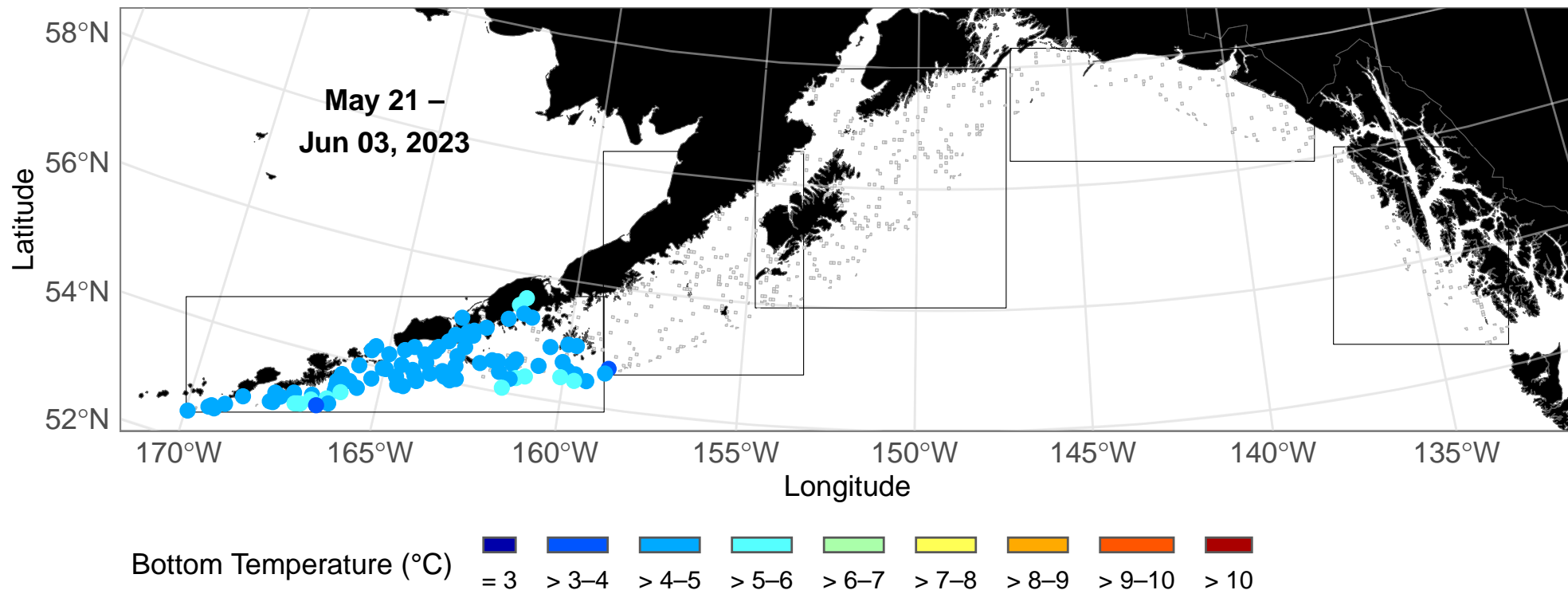
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-June 4. On June 4, stations 107-56 (54.62°N, -161.17°W; >4-5°C), 110-64 (54.96°N, -160.92°W; >4-5°C), and 107-55 (54.58°N, -161.17°W; >4-5°C) were surveyed by the F/V *Alaska Provider* and a station 121-60 (54.79°N, -160.01°W; >4-5°C) was surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

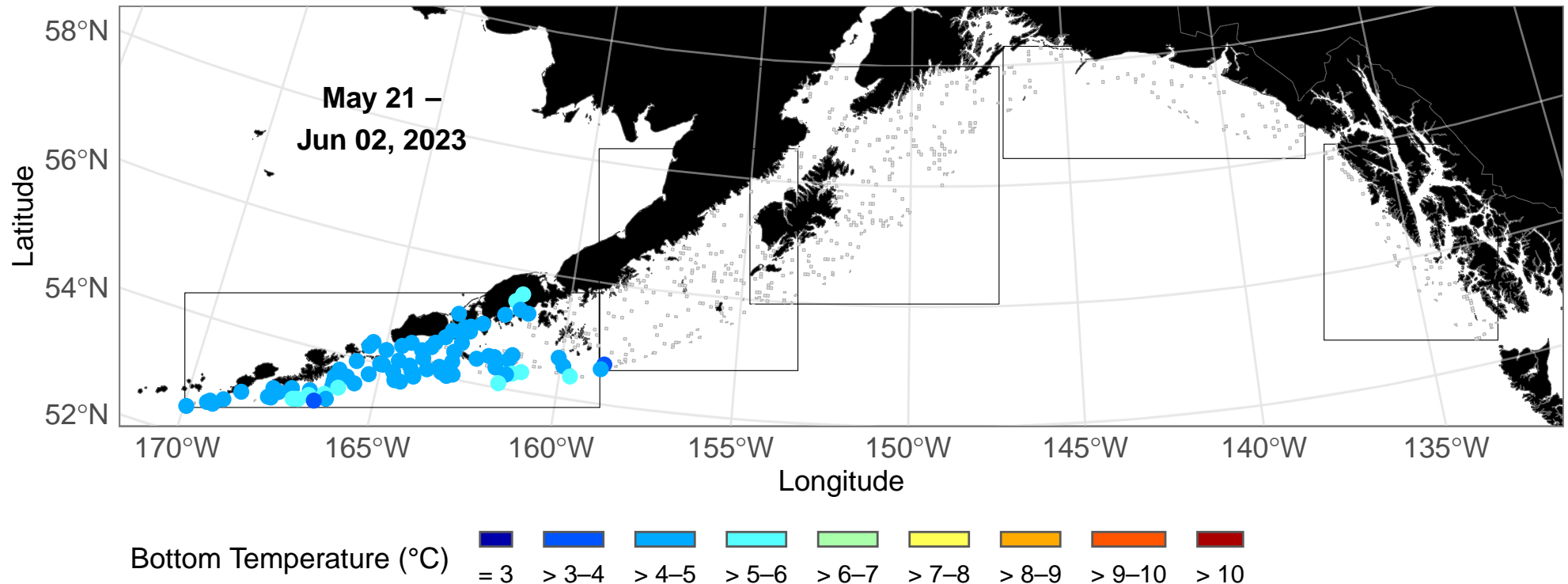
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–June 3. On June 3, stations 112-54 (54.54°N, -160.75°W; >4–5°C), 120-51 (54.41°N, -160.09°W; >5–6°C), 125-53 (54.5°N, -159.68°W; >4–5°C), and 129-51 (54.41°N, -159.35°W; >4–5°C) were surveyed by the F/V *Alaska Provider* and stations 115-62 (54.88°N, -160.5°W; >4–5°C), 121-64 (54.96°N, -160.01°W; >4–5°C), and 124-64 (54.96°N, -159.76°W; >4–5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

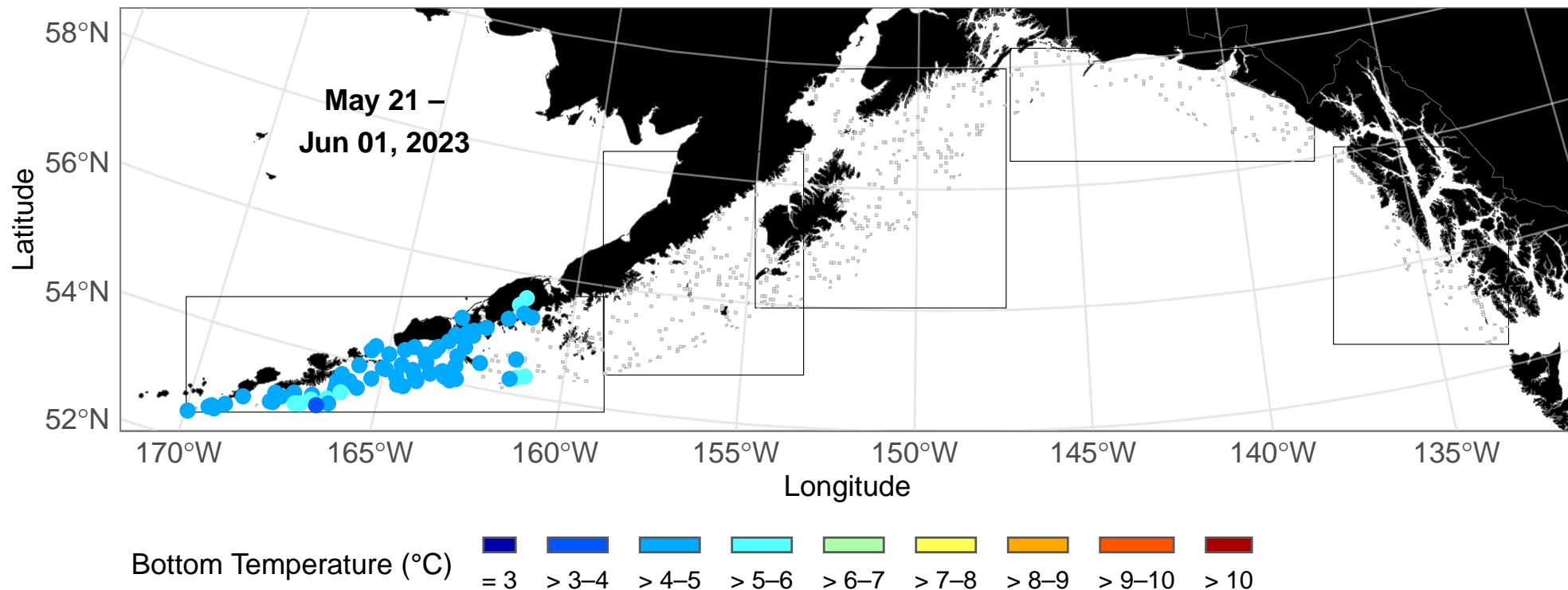
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-June 2. On June 2, stations 101-43 (54.08°N, -161.67°W; >5-6°C), 96-53 (54.5°N, -162.07°W; >4-5°C), 98-53 (54.5°N, -161.91°W; >4-5°C), 99-49 (54.33°N, -161.83°W; >4-5°C), and 103-53 (54.5°N, -161.5°W; >4-5°C) were surveyed by the F/V *Alaska Provider* and stations 135-55 (54.58°N, -158.85°W; >4-5°C), 136-57 (54.67°N, -158.77°W; >3-4°C), 125-50 (54.39°N, -159.69°W; >5-6°C), 122-54 (54.54°N, -159.93°W; >4-5°C), and 120-57 (54.67°N, -160.09°W; >4-5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

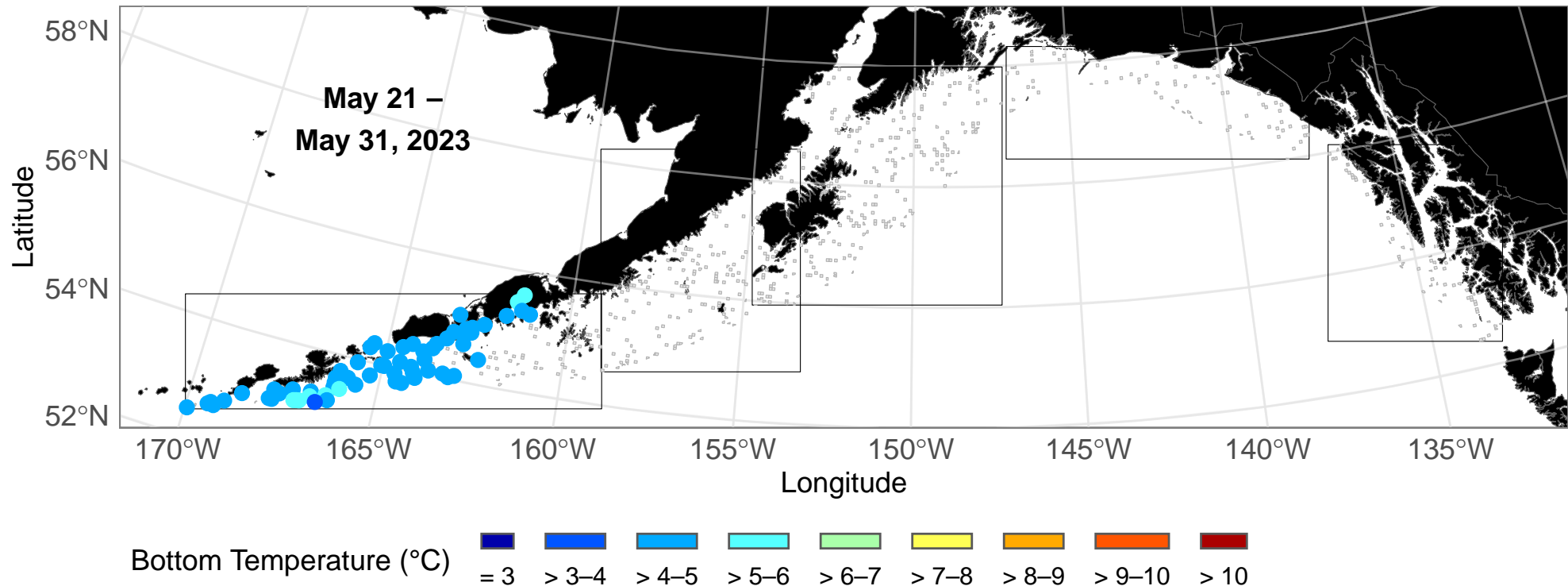
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21–June 1. On June 1, stations 80-45 (54.16°N, -163.4°W; >4–5°C), 84-44 (54.12°N, -163.07°W; >4–5°C), 84-52 (54.45°N, -163.07°W; >4–5°C), 83-43 (54.08°N, -163.15°W; >4–5°C), and 84-48 (54.29°N, -163.07°W; >4–5°C) were surveyed by the F/V *Alaska Provider* and stations 105-48 (54.28°N, -161.33°W; >5–6°C), 108-49 (54.33°N, -161.08°W; >5–6°C), 104-55 (54.58°N, -161.41°W; >4–5°C), and 103-47 (54.24°N, -161.5°W; >4–5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

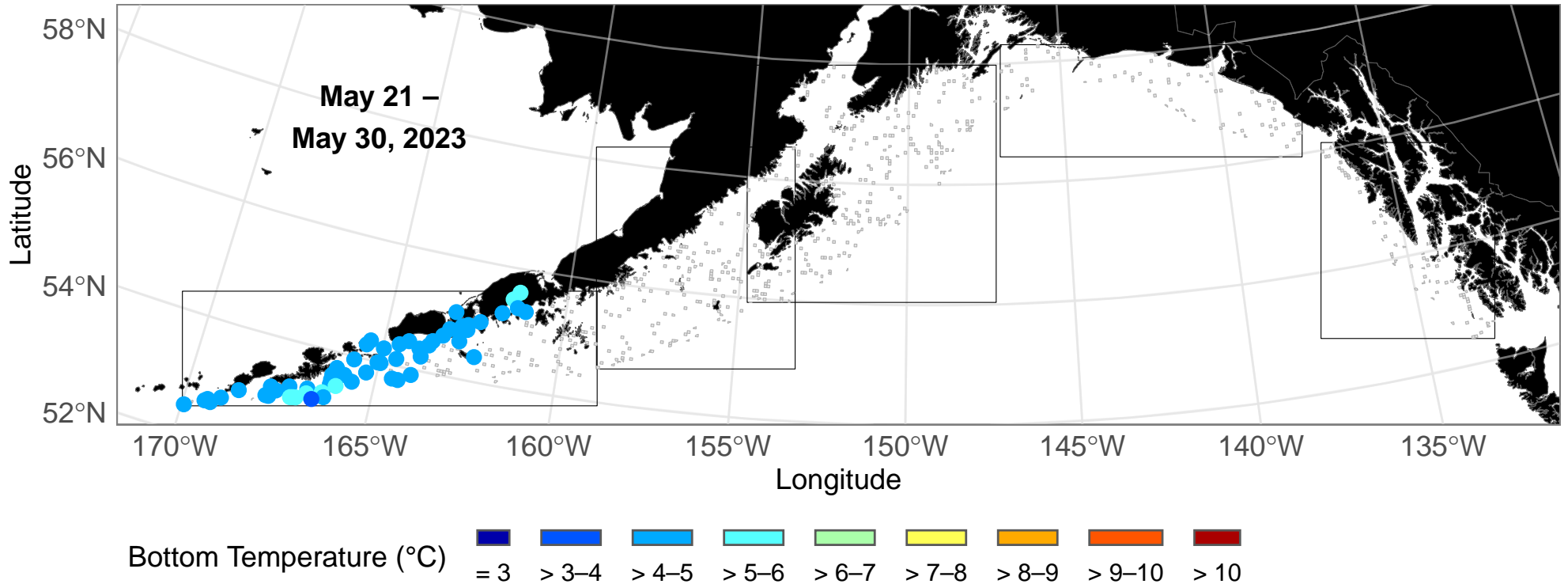
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-May 31. On May 31, stations 65-39 (53.91°N, -164.64°W; >4–5°C), 70-43 (54.08°N, -164.22°W; >4–5°C), 71-41 (53.99°N, -164.14°W; >4–5°C), and 76-43 (54.08°N, -163.73°W; >4–5°C) were surveyed by the F/V *Alaska Provider* and stations 83-42 (54.04°N, -163.15°W; >4–5°C), 85-43 (54.08°N, -162.98°W; >4–5°C), and 81-43 (54.08°N, -163.31°W; >4–5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

## 2023 Bottom Temperature (°C)

NOAA Fisheries Gulf of Alaska Bottom Trawl Survey

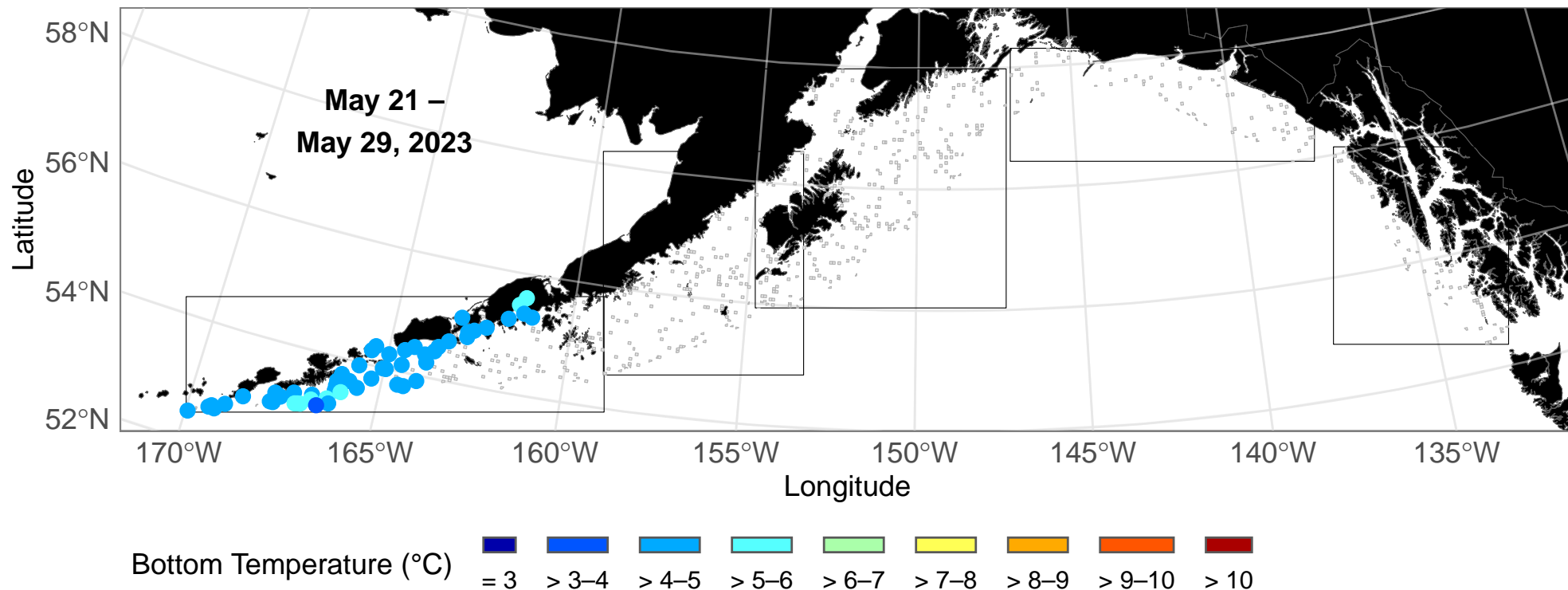


NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-May 30. On May 30, stations 82-60 (54.79°N, -163.23°W; >4-5°C), 92-51 (54.41°N, -162.4°W; >4-5°C), 86-56 (54.62°N, -162.9°W; >4-5°C), and 88-61 (54.84°N, -162.74°W; >4-5°C) were surveyed by the F/V *Ocean Explorer*. No stations were surveyed by the F/V *Alaska Provider*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries



## 2023 Bottom Temperature (°C)

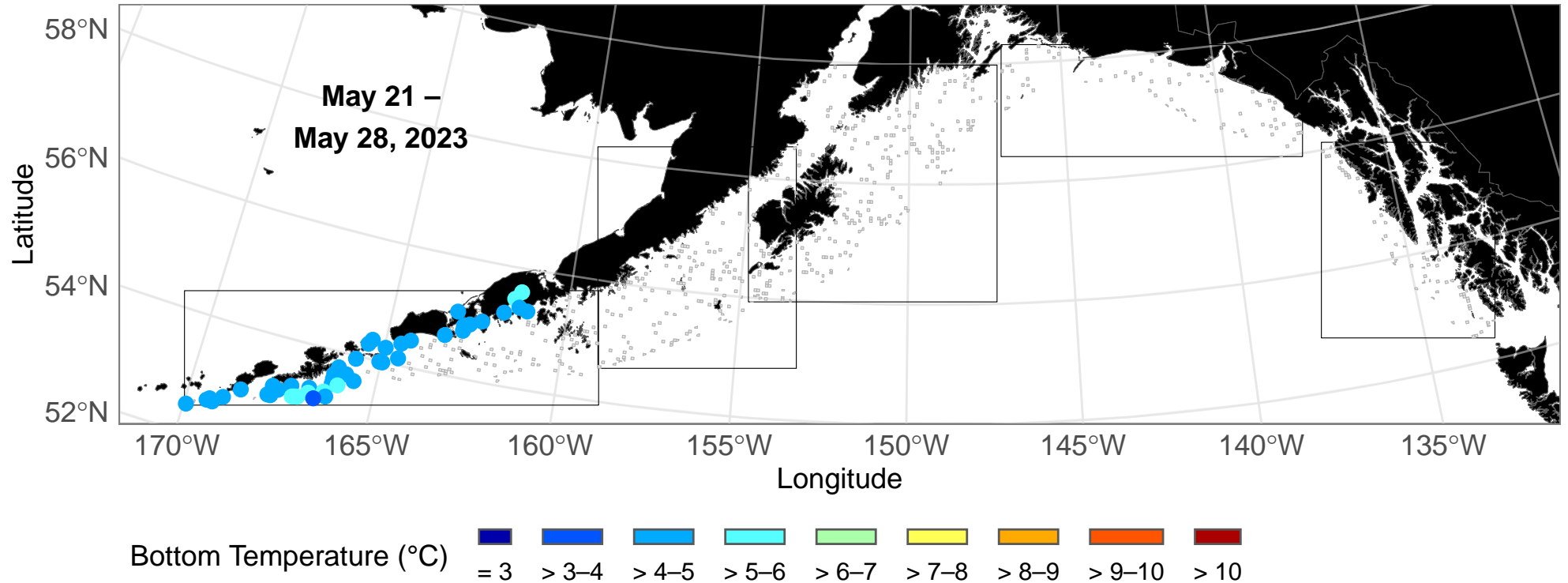
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-May 29. On May 29, stations 73-50 (54.37°N, -163.98°W; >4–5°C), 74-47 (54.24°N, -163.89°W; >4–5°C), 76-52 (54.45°N, -163.73°W; >4–5°C), and 77-54 (54.54°N, -163.64°W; >4–5°C) were surveyed by the F/V *Alaska Provider* and stations 57-36 (53.79°N, -165.3°W; >4–5°C), 66-36 (53.78°N, -164.56°W; >4–5°C), 68-36 (53.78°N, -164.39°W; >4–5°C), and 72-39 (53.91°N, -164.06°W; >4–5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

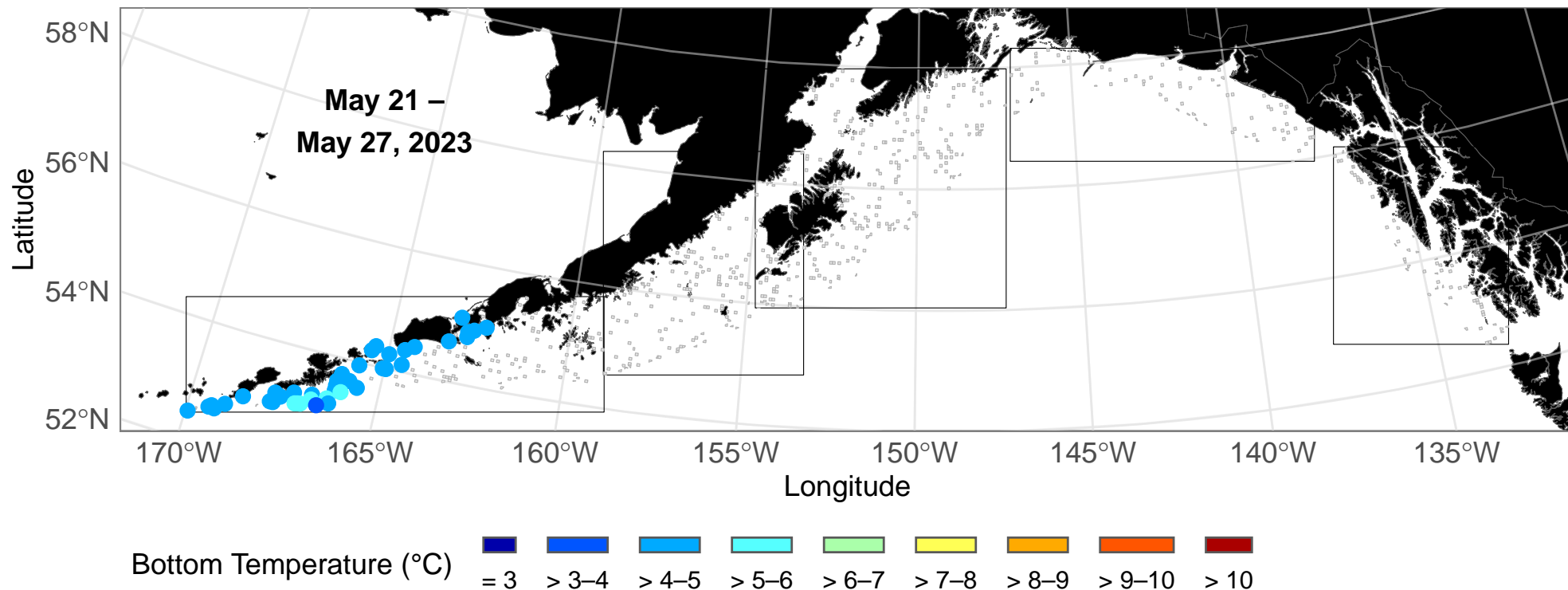
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-May 28. On May 28, stations 102-76 (55.48°N, -161.58°W; >5-6°C), 104-79 (55.61°N, -161.41°W; >5-6°C), 107-72 (55.31°N, -161.17°W; >4-5°C), 99-70 (55.22°N, -161.83°W; >4-5°C), and 104-73 (55.35°N, -161.41°W; >4-5°C) were surveyed by the F/V *Alaska Provider*. No stations were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

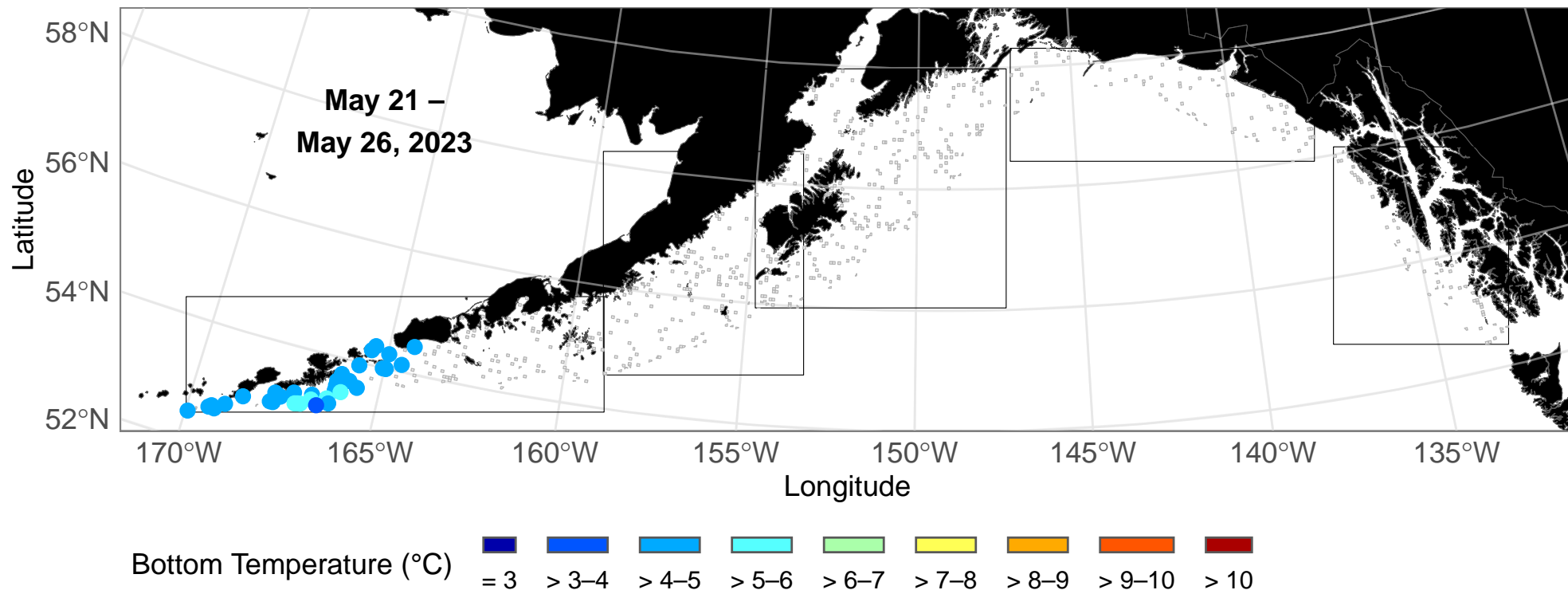
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-May 27. On May 27, stations 83-67 (55.09°N, -163.15°W; >4–5°C), 86-62 (54.88°N, -162.9°W; >4–5°C), 92-65 (55.01°N, -162.4°W; >4–5°C), and 88-63 (54.92°N, -162.73°W; >4–5°C) were surveyed by the F/V *Alaska Provider* and stations 66-50 (54.37°N, -164.55°W; >4–5°C), 86-60 (54.79°N, -162.9°W; >4–5°C), and 80-57 (54.66°N, -163.39°W; >4–5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

## 2023 Bottom Temperature (°C)

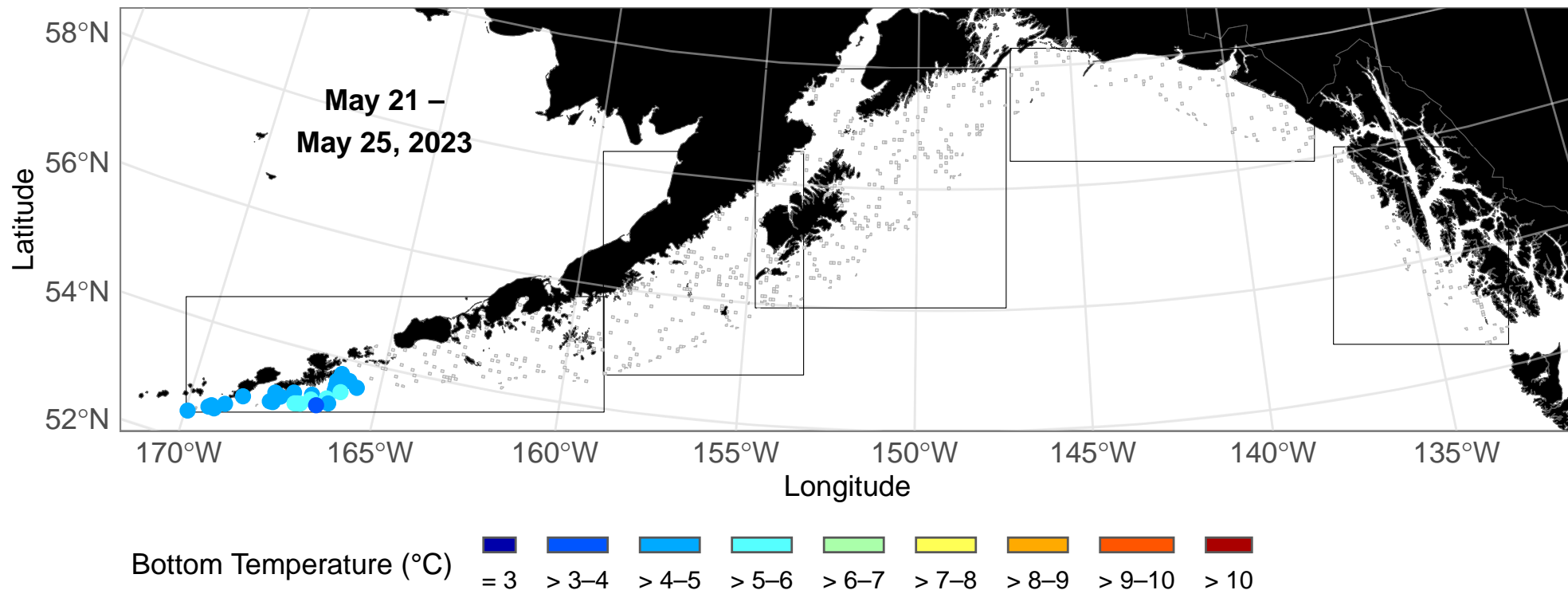
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-May 26. On May 26, stations 55-47 (54.24°N, -165.46°W; >4-5°C), 56-49 (54.33°N, -165.37°W; >4-5°C), 61-47 (54.24°N, -164.96°W; >4-5°C), and 69-52 (54.45°N, -164.31°W; >4-5°C) were surveyed by the F/V *Alaska Provider* and stations 52-40 (53.95°N, -165.71°W; >4-5°C), 66-44 (54.12°N, -164.55°W; >4-5°C), 61-41 (53.99°N, -164.96°W; >4-5°C), and 60-41 (53.99°N, -165.05°W; >4-5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

## 2023 Bottom Temperature (°C)

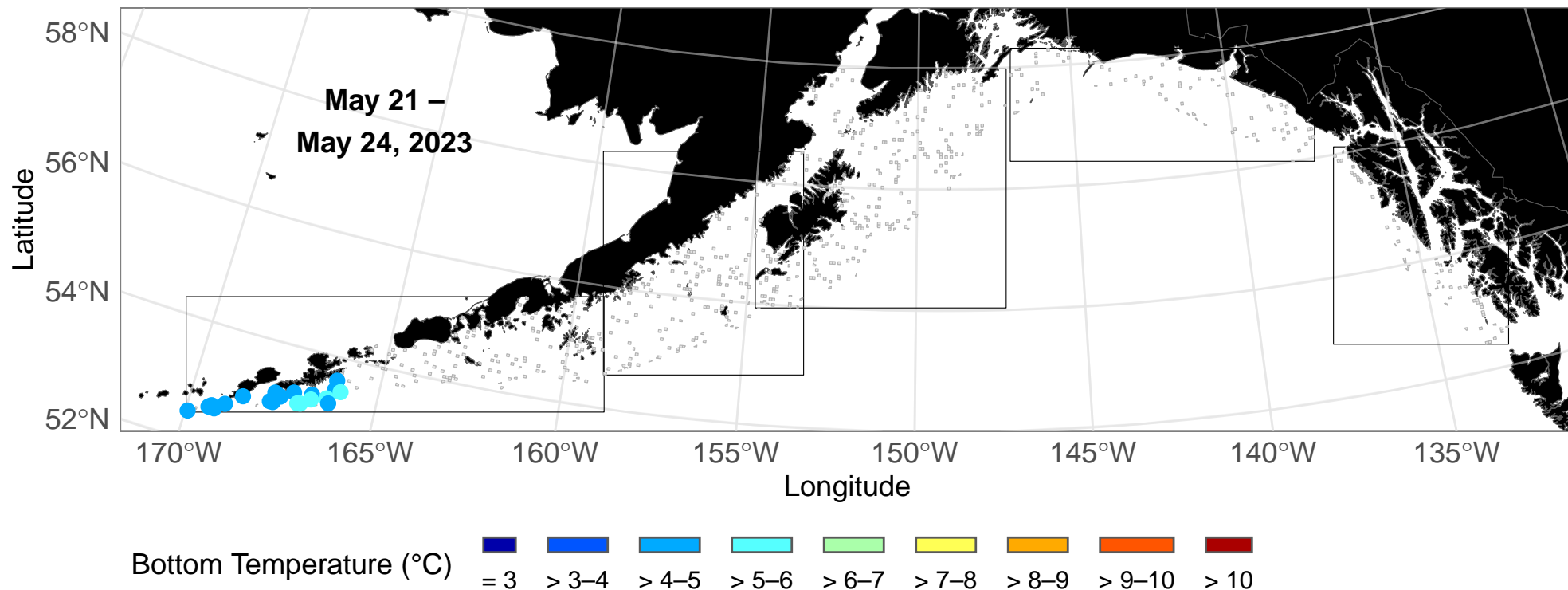
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-May 25. On May 25, stations 46-30 (53.54°N, -166.21°W; >4–5°C), 48-32 (53.61°N, -166.05°W; >4–5°C), 53-31 (53.58°N, -165.63°W; >4–5°C), and 47-35 (53.74°N, -166.12°W; >4–5°C) were surveyed by the F/V *Alaska Provider* and stations 34-19 (53.08°N, -167.19°W; >5–6°C), 41-20 (53.14°N, -166.61°W; >3–4°C), and 50-33 (53.66°N, -165.88°W; >4–5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

## 2023 Bottom Temperature (°C)

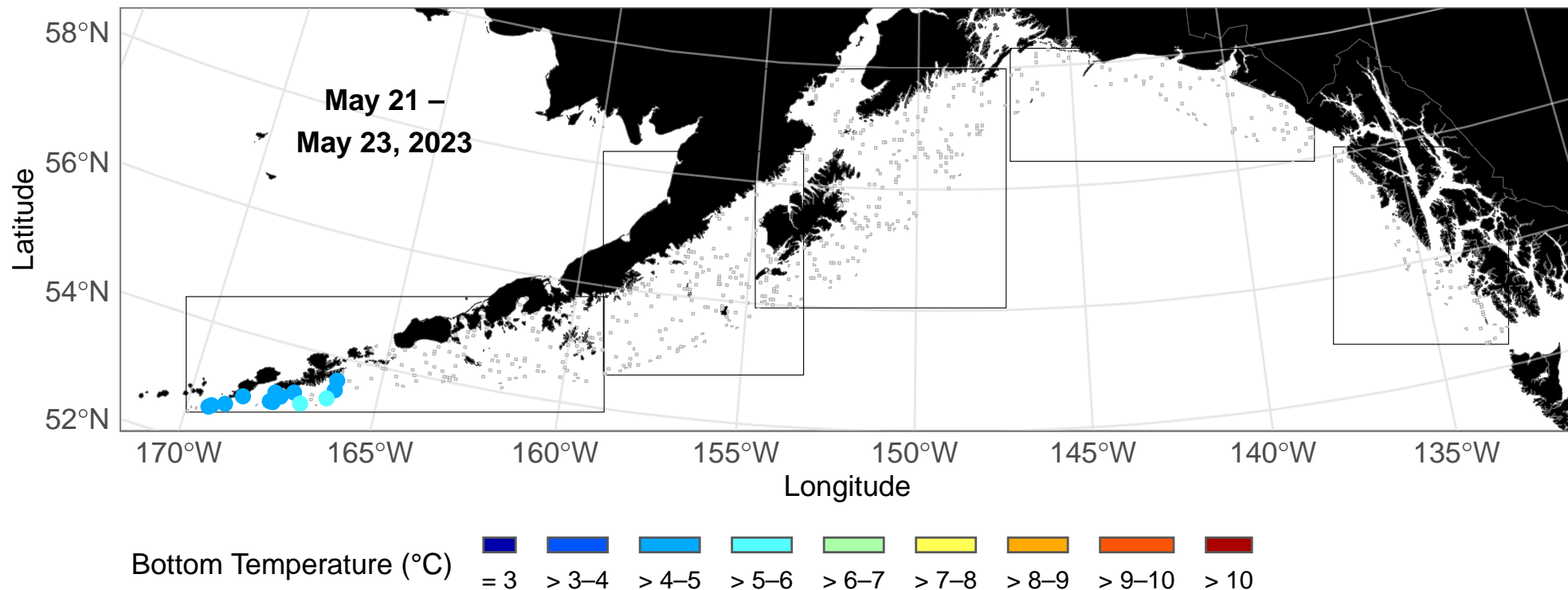
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-May 24. On May 24, stations 35-19 (53.09°N, -167.12°W; >5-6°C), 39-22 (53.21°N, -166.78°W; >5-6°C), 39-24 (53.29°N, -166.79°W; >4-5°C), 48-28 (53.45°N, -166.04°W; >5-6°C), and 45-22 (53.22°N, -166.3°W; >4-5°C) were surveyed by the F/V *Alaska Provider* and stations 1-4 (52.48°N, -169.94°W; >4-5°C) and 9-8 (52.64°N, -169.27°W; >4-5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*

## 2023 Bottom Temperature (°C)

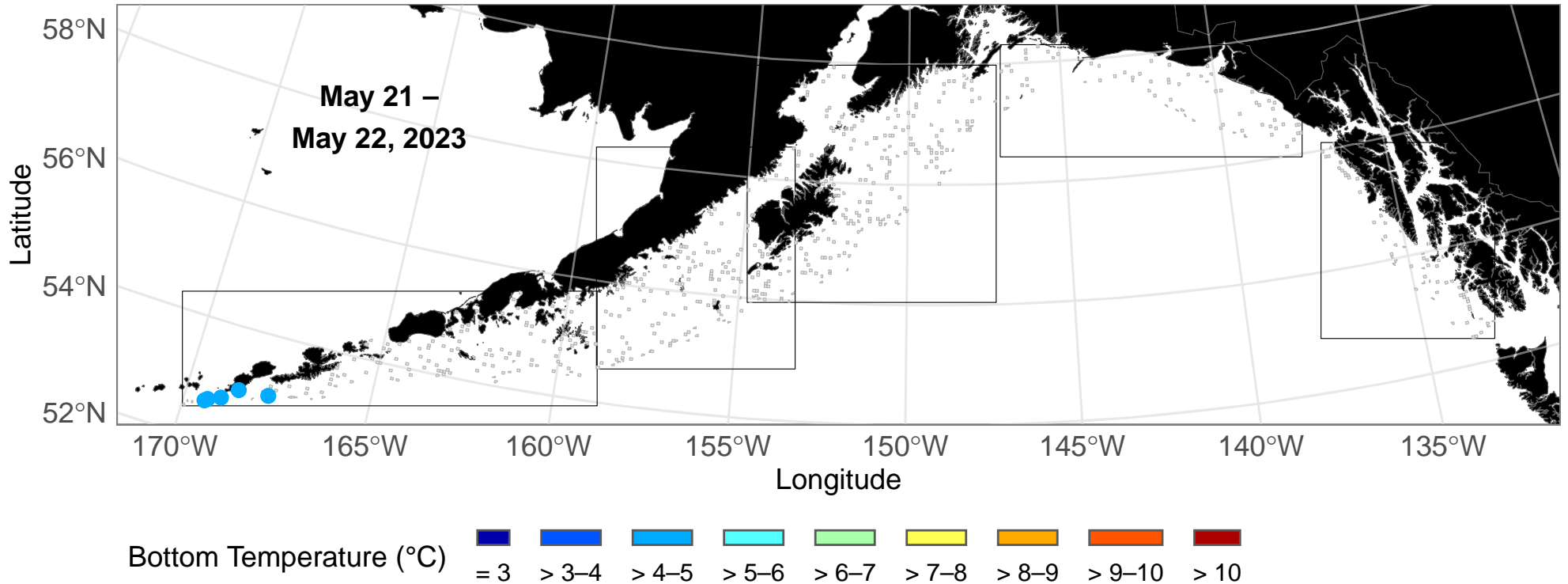
NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-May 23. On May 23, stations 26-17 (53.01°N, -167.86°W; >4-5°C), 29-20 (53.13°N, -167.61°W; >4-5°C), 33-23 (53.25°N, -167.28°W; >4-5°C), and 27-21 (53.17°N, -167.78°W; >4-5°C) were surveyed by the F/V *Alaska Provider* and stations 36-19 (53.1°N, -167.04°W; >5-6°C), 44-24 (53.29°N, -166.37°W; >5-6°C), 46-28 (53.46°N, -166.21°W; >4-5°C), and 46-32 (53.62°N, -166.21°W; >4-5°C) were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries

# 2023 Bottom Temperature (°C)

NOAA Fisheries Gulf of Alaska Bottom Trawl Survey

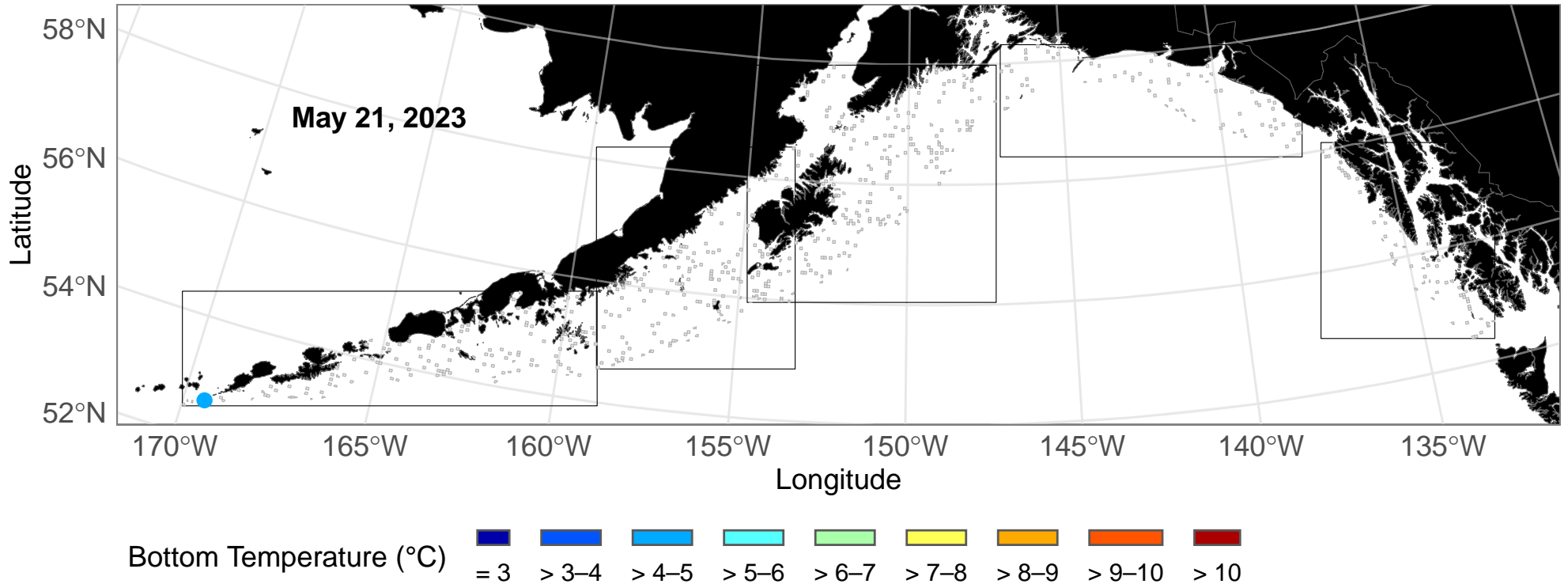


NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected May 21-May 22. On May 22, stations 27-17 (53.01°N, -167.78°W; >4-5°C), 17-16 (52.96°N, -168.6°W; >4-5°C), 8-9 (52.68°N, -169.36°W; >4-5°C), and 12-11 (52.76°N, -169.02°W; >4-5°C) were surveyed by the F/V *Alaska Provider*. No stations were surveyed by the F/V *Ocean Explorer*. Stations yet to be sampled are shown as gray dots. Credit: NOAA Fisheries



## 2023 Bottom Temperature (°C)

NOAA Fisheries Gulf of Alaska Bottom Trawl Survey



NOAA Fisheries AFSC Groundfish Assessment Program conducted the Gulf of Alaska bottom trawl survey. The near real-time ocean bottom temperatures depicted were collected on May 21, 2023. This is the first day of the survey. On May 21, a station 7-8 (52.64°N, -169.43°W; >4-5°C) was surveyed by the *F/V Alaska Provider*. No stations were surveyed by the *F/V Ocean Explorer*. Stations yet to be sampled are shown as gray dots. *Credit: NOAA Fisheries*