

DESCRIPTION OF DREDGING STATIONS OCCUPIED DURING PRESENT SURVEY.

FISH HAWK STATIONS.

- Station no.
7521. July 28, 1903. Nobska Light, NE, $\frac{1}{2}$ mile; 10 fathoms; coarse sand; 24-inch rake dredge. (Dredge frame broken during haul.)
7522. July 28, 1903. Nobska Light, N $\frac{1}{2}$ W, 1 mile; 10 fathoms; stony; 24-inch rake dredge.
7523. July 28, 1903. Nobska Light, NW by N $\frac{3}{4}$ N, $1\frac{5}{8}$ miles; 13 fathoms; stony; 24-inch rake dredge. (Dredge net torn during haul.)
7524. July 28, 1903. Nobska Light, NNW $\frac{1}{8}$ W, $2\frac{1}{4}$ miles; 10 fathoms; stony; 7-foot beam trawl.
7525. July 28, 1903. Nobska Light, NNW $\frac{1}{4}$ W, $2\frac{5}{8}$ miles; 7 fathoms; sandy; 7-foot beam trawl.
7526. July 28, 1903. Nobska Light, N $\frac{1}{4}$ W, $2\frac{1}{2}$ miles; $7\frac{1}{2}$ fathoms; sandy; 7-foot beam trawl.
7527. July 31, 1903. West Chop SE by E, Tarpaulin Cove W by S $\frac{1}{2}$ S; 9 fathoms; sand; 24-inch rake dredge.
7528. July 31, 1903. West Chop SE by E $\frac{3}{4}$ E, Nobska NE $\frac{1}{4}$ N; 13 fathoms; sandy; 24-inch rake dredge.
7529. July 31, 1903. West Chop ESE, Nobska NNE; 13 fathoms; sand and gravel; 24-inch rake dredge.
7530. July 31, 1903. Nobska N $\frac{1}{2}$ E, West Chop E by S $\frac{1}{4}$ S; 12 fathoms; stony; 7-foot beam trawl.
7531. July 31, 1903. Tarpaulin Cove W $\frac{1}{2}$ N, Nobska NE by N $\frac{1}{4}$ N; $8\frac{1}{2}$ fathoms; sandy; 24-inch rake dredge.
7532. August 3, 1903. West Chop ESE, Tarpaulin Cove W by S $\frac{1}{2}$ S; 10 fathoms; sand and stones 24-inch rake dredge.
7533. August 3, 1903. West Chop E by S $\frac{1}{2}$ S, Tarpaulin Cove W by S; 10 fathoms; sandy; 24-inch rake dredge.
7534. August 3, 1903. West Chop E by S, Nobska Point NE, Tarpaulin Cove W $\frac{1}{4}$ S; $10\frac{1}{4}$ fathoms; stony; 24-inch rake dredge.
7535. August 3, 1903. Nobska Point N by E $\frac{3}{4}$ E, Tarpaulin Cove W by N; 10 fathoms; gravel and sand; 24-inch rake dredge (2 hauls).
7536. August 3, 1903. Nobska Point N by E $\frac{1}{2}$ E, Tarpaulin Cove W by N $\frac{1}{2}$ N; $5\frac{1}{2}$ fathoms; sandy; 24-inch rake dredge.
7537. August 7, 1903. Tarpaulin Cove W by S $\frac{1}{2}$ S, West Chop E by S $\frac{1}{4}$ S; 15 fathoms; coarse gravel; 24-inch dredge (2 hauls).
7538. August 7, 1903. Tarpaulin Cove W $\frac{1}{4}$ S, West Chop E $\frac{3}{4}$ S; 10 fathoms; stony; oyster dredge.
7539. August 7, 1903. Tarpaulin Cove W $\frac{3}{4}$ N, Nobska NE; 13 fathoms; stony; oyster dredge.
7540. August 7, 1903. Nobska NE $\frac{3}{4}$ N, Tarpaulin Cove W by N $\frac{1}{2}$ N; 5 fathoms; sand and shells; oyster dredge and beam trawl.
7541. August 7, 1903. Nobska NE by N $\frac{1}{2}$ N, Tarpaulin Cove WNW; 13 fathoms; sand and gravel; oyster dredge.
7542. August 7, 1903. Nobska NE by N $\frac{3}{4}$ N, Tarpaulin Cove NW by W $\frac{1}{2}$ W; 7 fathoms; sandy; beam trawl.
7543. August 11, 1903. Gay Head SW $\frac{1}{2}$ S, Nobska E by N $\frac{1}{2}$ N; 12 fathoms; coarse gravel; oyster dredge.
7544. August 11, 1903. Tarpaulin Cove W $\frac{3}{4}$ N, Nobska NE by E $\frac{1}{2}$ E; $10\frac{1}{2}$ fathoms; coarse gravel; oyster dredge.
7545. August 11, 1903. Tarpaulin Cove WNW, Nobska NE $\frac{1}{2}$ E; $10\frac{1}{4}$ fathoms; stones and coarse gravel; oyster dredge.
7546. August 11, 1903. Tarpaulin Cove NW by W $\frac{1}{4}$ W, Nobska NE $\frac{1}{2}$ N; 5 fathoms; sand and stones; 7-foot beam trawl and 24-inch dredge.

Station no.

7547. August 11, 1903. Nobska NE by N, Tarpaulin Cove NW $\frac{3}{4}$ W; 12 fathoms; stony; oyster dredge.
7548. August 11, 1903. Tarpaulin Cove NW $\frac{1}{4}$ W, Nobska NE by N; 6 fathoms; stony; 7-foot beam trawl.
7549. August 12, 1903. Tarpaulin Cove NW, Nobska ENE; 12 fathoms; stony; oyster dredge.
7550. August 12, 1903. Nobska NE by E $\frac{1}{4}$ E, Tarpaulin Cove NW $\frac{1}{2}$ N; 12 fathoms; stony; 7-foot beam trawl.
7551. August 12, 1903. Nobska NE $\frac{1}{2}$ E, Tarpaulin Cove NW $\frac{3}{4}$ N; 9 fathoms; sand; 7-foot beam trawl and 24-inch dredge.
7552. August 12, 1903. Nobska NE $\frac{1}{4}$ N, Tarpaulin Cove NW by N; 13 fathoms; sand and shells; oyster dredge.
7553. August 12, 1903. Nobska NE $\frac{3}{4}$ N, Tarpaulin Cove NW by N; $7\frac{1}{4}$ fathoms; sand and shells; 7-foot beam trawl.
7554. August 15, 1903. Nobska ENE, Gay Head SW $\frac{3}{4}$ S; $7\frac{1}{2}$ fathoms; muddy; 7-foot beam trawl, oyster dredge, 24-inch dredge.
7555. August 15, 1903. Tarpaulin Cove N by E $\frac{1}{4}$ E, Nobska NE by E $\frac{1}{4}$ E; 12 fathoms; sandy; 7-foot beam trawl.
7556. August 15, 1903. Nobska NE $\frac{1}{2}$ E, Tarpaulin Cove N; $9\frac{1}{2}$ fathoms; sandy; 7-foot beam trawl.
7557. August 18, 1903. Tarpaulin Cove N by W, Gay Head SW $\frac{3}{4}$ W; $3\frac{1}{2}$ to $10\frac{1}{4}$ fathoms; sandy; 7-foot beam trawl.
7558. August 18, 1903. Gay Head SW by W $\frac{1}{2}$ W, Tarpaulin Cove N by W $\frac{1}{4}$ W; $17\frac{1}{4}$ fathoms; sand and shells; 7-foot beam trawl.
7559. August 18, 1903. Tarpaulin Cove N by W $\frac{1}{2}$ W, Gay Head WSW; $5\frac{1}{4}$ fathoms; sandy; 7-foot beam trawl. (Very little material obtained.)
7560. August 18, 1903. Gay Head WSW, Tarpaulin Cove N $\frac{1}{4}$ W; 7 fathoms; sand and pebbles; beam trawl, and oyster dredge.
7561. August 18, 1903. Gay Head SW by W $\frac{1}{4}$ W, Tarpaulin Cove N $\frac{1}{4}$ E; $12\frac{1}{2}$ fathoms; sand and stones; 7-foot beam trawl.
7562. August 18, 1903. Gay Head SW $\frac{1}{2}$ W, Tarpaulin Cove N $\frac{3}{4}$ E; $5\frac{1}{4}$ fathoms; sandy; 7-foot beam trawl and 24-inch dredge.
7563. August 18, 1903. Gay Head SW, West Chop E by N; 8 fathoms; gravel; 7-foot beam trawl.
7564. August 18, 1903. Gay Head SW $\frac{3}{4}$ S, West Chop E $\frac{1}{2}$ N; 13 fathoms; sand; 7-foot beam trawl.
7565. August 18, 1903. Gay Head SW by S $\frac{1}{4}$ S, West Chop E $\frac{1}{4}$ N; 15 fathoms; sandy; 7-foot beam trawl and 24-inch dredge.
7566. August 21, 1903. Gay Head SSW, tangent Naushon E by N $\frac{1}{4}$ N; $7\frac{1}{2}$ fathoms; sandy; oyster dredge. (Scanty haul.)
7567. August 21, 1903. Tarpaulin Cove NE $\frac{1}{2}$ E, Gay Head SW by S $\frac{1}{4}$ S; 12 fathoms; sandy; 7-foot beam trawl and 24-inch dredge. (Scanty haul.)
7568. August 21, 1903. Tarpaulin Cove NE by N, Cedar Tree Neck E; $7\frac{1}{4}$ fathoms; sandy; 7-foot beam trawl and 24-inch dredge. (Scanty haul.)
7569. August 21, 1903. Tarpaulin Cove NE by N $\frac{3}{4}$ N, Gay Head SW; 7 fathoms; sandy; 7-foot beam trawl and 24-inch dredge. (Scanty haul.)
7570. August 21, 1903. Gay Head SW $\frac{3}{4}$ W, Tarpaulin Cove N by E $\frac{1}{2}$ E; 12 fathoms; sandy; 7-foot beam trawl and 24-inch dredge. (Scanty haul.)
7571. August 21, 1903. Tarpaulin Cove N by E, Gay Head SW by W $\frac{1}{2}$ W; 12 fathoms; muddy; 7-foot beam trawl and 24-inch dredge.
7572. August 21, 1903. Tarpaulin Cove N $\frac{1}{2}$ E, Gay Head W by S $\frac{3}{4}$ S; 10 fathoms; sandy and stony; 7-foot beam trawl and 24-inch dredge.
7573. August 24, 1903. Gay Head S by W, Buoy No. 2, Quicks Hole, in line with Dumpling Light; 8 fathoms; muddy; oyster dredge.
7574. August 24, 1903. Gay Head S by W $\frac{1}{2}$ W, Nobska ENE; 10 fathoms; sandy; 7-foot beam trawl and 24-inch dredge.
7575. August 24, 1903. Gay Head SW by S $\frac{3}{4}$ S, Nobska NE by $\frac{3}{4}$ E; $12\frac{3}{4}$ fathoms; sandy; 7-foot beam trawl and 24-inch dredge.
7576. August 24, 1903. Gay Head SW $\frac{3}{4}$ S, Cuttyhunk Life Saving Station W by N $\frac{3}{4}$ N; $9\frac{1}{2}$ fathoms; sand and fine gravel; 7-foot beam trawl and 24-inch dredge.

- Station no.
7577. August 24, 1903. Cuttyhunk Life Saving Station NW by W $\frac{3}{4}$ W, Gay Head SW $\frac{1}{4}$ S; 8 fathoms; fine gravel and broken shells; 7-foot beam trawl and 24-inch dredge.
7578. August 24, 1903. Gay Head SW by W, Cuttyhunk Life Saving station NW by W $\frac{1}{2}$ W; 14 fathoms; sand and mud; 7-foot beam trawl and 24-inch dredge.
7579. August 24, 1903. Gay Head WSW, Tarpaulin Cove N by E $\frac{3}{4}$ E; $10\frac{1}{2}$ fathoms; sandy; 7-foot beam trawl, 24-inch dredge.
7580. August 24, 1903. Gay Head W $\frac{3}{4}$ S, Tarpaulin Cove N by E; $9\frac{3}{4}$ fathoms; sandy; 7-foot beam trawl, 24-inch dredge.
7581. August 27, 1903. Gay Head S $\frac{1}{4}$ W, Cuttyhunk Life Saving Station NW by N $\frac{1}{4}$ N; $6\frac{3}{4}$ fathoms; black mud and shells; 7-foot beam trawl and 24-inch dredge.
7582. August 27, 1903. Gay Head S by E, Black Buoy on Devils Bridge SW; $14\frac{3}{4}$ fathoms; mud and shells; 7-foot beam trawl and 24-inch dredge.
7583. August 27, 1903. Cuttyhunk Light NW $\frac{1}{2}$ W, Black Buoy S $\frac{1}{4}$ W; 13 fathoms; sand and shells; 7-foot beam and trawl and 24-inch dredge.
7584. August 27, 1903. Gay Head SSE, Cuttyhunk Light NW by W; $14\frac{3}{4}$ fathoms; sandy; 7-foot beam trawl and 24-inch dredge.
7585. August 28, 1903. Gay Head SE by S $\frac{3}{4}$ S, tangent Cuttyhunk Island WNW; 15 fathoms; sandy; 7-foot beam trawl and 24-inch dredge.
7586. August 28, 1903. Gay Head SSE $\frac{1}{4}$ E, tangent Cuttyhunk Island W by N $\frac{1}{2}$ N; 13 fathoms; sand and mud; 7-foot beam trawl and 24-inch dredge.
7587. August 28, 1903. Gay Head SE by S $\frac{3}{4}$ S, tangent Cuttyhunk Island W $\frac{1}{4}$ N; 10 fathoms; coarse gravel; oyster dredge.
7588. August 28, 1903. Gay Head S by E $\frac{1}{4}$ E, tangent Cuttyhunk Island W $\frac{1}{4}$ N; 10 fathoms, sand; oyster dredge.
7589. August 28, 1903. Gay Head S $\frac{3}{4}$ E, tangent Cuttyhunk Island W by N; 13 fathoms; sandy; 7-foot beam trawl and 24-inch dredge.
7590. August 28, 1903. Gay Head S $\frac{1}{2}$ E, Nobska NE by E $\frac{3}{4}$ E; $14\frac{3}{4}$ fathoms; sandy; 7-foot beam trawl and 24-inch dredge.
7591. August 28, 1903. Gay Head S $\frac{1}{4}$ W, tangent Cuttyhunk Island WNW; 14 fathoms; sand; 7-foot beam trawl and 24-inch dredge.
7592. August 28, 1903. Gay Head S by W $\frac{3}{4}$ W, tangent Cuttyhunk Island NW by W $\frac{1}{4}$ W; 16 fathoms; broken shells; 7-foot beam trawl and 24-inch dredge.
7593. August 28, 1903. Gay Head SW, tangent Cuttyhunk NW by W; 13 fathoms; sandy; 7-foot beam trawl and 24-inch dredge.
7594. August 28, 1903. Gay Head SW by W $\frac{3}{4}$ W, Nobska NE $\frac{1}{2}$ E; 10 fathoms; sandy; 7-foot beam trawl and 24-inch dredge.
7595. September 1, 1903. Gay Head S $\frac{1}{4}$ W, bell buoy E by N; 7 fathoms; stones and gravel; oyster dredge.
7596. September 1, 1903. Gay Head S $\frac{3}{4}$ W, Nobska NE by E $\frac{3}{4}$ E; 7 fathoms; hard sand and rock; 7-foot beam trawl, 24-inch dredge, and oyster dredge.
7597. September 1, 1903. Nobska NE by E $\frac{1}{2}$ E, Gay Head SW by S $\frac{3}{4}$ S; 12 fathoms; sandy; 7-foot beam trawl and 24-inch dredge.
7598. September 1, 1903. Nobska NE by E $\frac{1}{2}$ E, Gay Head SW by S $\frac{1}{2}$ S; 13 fathoms; sandy; 7-foot beam trawl, oyster dredge.
7599. September 1, 1903. Gay Head SW $\frac{1}{2}$ S, Cuttyhunk Life Saving Station NW $\frac{3}{4}$ W, $12\frac{1}{2}$ fathoms; black mud; 7-foot beam trawl,
7600. September 1, 1903. Gay Head SW by W $\frac{1}{4}$ W, Tarpaulin Cove NE by N $\frac{1}{2}$ N; 10 fathoms; hard sand; 7-foot beam trawl.
7601. September 1, 1903. Gay Head W by S $\frac{1}{4}$ S, Nobska NE; 10 fathoms; muddy sand; oyster dredge.
7602. September 1, 1903. Gay Head W, Nobska NE $\frac{1}{4}$ N; 7 fathoms; muddy sand; 7-foot beam trawl and 24-inch dredge.
7603. September 2, 1903. Chatham Light WNW, 7 miles $17\frac{1}{2}$ fathoms; stones and pebbles; 7-foot beam trawl and small scrape dredge; drift S $\frac{1}{8}$ mile.

Station no.

7604. September 2, 1903. Chatham Light W by N $\frac{3}{4}$ N, distance 7 miles; 19 fathoms; sand and gravel; oyster dredge; drift W $\frac{1}{8}$ mile.
7605. September 2, 1903. Chatham Light W by N $\frac{3}{4}$ N, distance 7 miles; 17 fathoms; pebbles and gravel; oyster dredge; drift SE $\frac{1}{8}$ mile.
7606. September 2, 1903. Chatham Light W by N $\frac{3}{4}$ N; 7 miles; 16 fathoms; large stones and gravel; oyster dredge; drift SE $\frac{1}{8}$ mile.
7607. September 2, 1903. Chatham Light NW by W $\frac{1}{2}$ W, 7 miles; 16 $\frac{3}{4}$ fathoms; large stones and gravel; oyster dredge; drift WSW $\frac{1}{8}$ mile.
7608. September 2, 1903. Chatham Light WNW, 7 $\frac{3}{4}$ miles; 19 $\frac{3}{4}$ fathoms; sand and gravel; 7-foot beam trawl and small scrape dredge (3 separate hauls were made); drift SSW $\frac{1}{8}$ mile.
7609. September 2, 1903. Chatham Light W $\frac{1}{4}$ N, 7 $\frac{1}{4}$ miles; 25 fathoms; shells and pebbles; oyster dredge; drift SE $\frac{1}{4}$ mile.
7610. July 22, 1904. South end Big Weepecket W by S $\frac{3}{4}$ S, 2 miles; Nobska Light SE by E $\frac{1}{2}$ E, 2 $\frac{1}{8}$ miles; 4 $\frac{1}{2}$ fathoms; sandy; 7-foot beam trawl; scrape dredge; drift SE $\frac{1}{8}$ mile.
7611. July 22, 1904. Nobska Light SE $\frac{1}{2}$ E, 3 $\frac{1}{2}$ miles; 2 small Weepecket Islands in line, 1 $\frac{1}{2}$ miles; 7 $\frac{1}{2}$ fathoms; black mud; 7-foot beam trawl, scrape dredge; drift E $\frac{1}{8}$ mile.
7612. July 22, 1904. Bird Island Light NNE, 6 $\frac{3}{4}$ miles; Fairhaven standpipe NW $\frac{1}{4}$ N, 7 $\frac{3}{4}$ miles; 7 $\frac{1}{2}$ fathoms; black sandy mud; 7-foot beam trawl; scrape dredge; drift ENE $\frac{1}{8}$ mile.
7613. July 22, 1904. Bird Island Light NE $\frac{3}{4}$ N, 6 miles; Fair Haven standpipe NW $\frac{1}{2}$ N, 6 $\frac{1}{4}$ miles; 7 fathoms; black sandy mud; 7-foot beam trawl; scrape dredge; drift ENE $\frac{1}{8}$ mile.
7614. July 22, 1904. Fairhaven standpipe NW, 5 miles; Angelica and Cormorant Point beacon in line, $\frac{3}{8}$ mile; 5 fathoms; black muddy sand; 7-foot beam trawl, scrape dredge; drift E $\frac{1}{8}$ mile.
7615. July 22, 1904. Bird Island Light NE by E $\frac{3}{4}$ E, 5 $\frac{3}{4}$ miles; Fair Haven standpipe NW $\frac{1}{4}$ W, 3 $\frac{1}{2}$ miles; 3 $\frac{1}{2}$ fathoms; black muddy sand; 7-foot beam trawl, scrape dredge; drift E $\frac{1}{8}$ mile.
7616. July 25, 1904. North Weepecket Island W by S $\frac{1}{4}$ S, 3 $\frac{1}{4}$ miles; end of Quamquisset Point S by E $\frac{1}{2}$ E, $\frac{1}{4}$ mile; 5 $\frac{1}{2}$ fathoms; muddy sand; oyster dredge; drift E $\frac{1}{8}$ mile.
7617. July 25, 1904. Wings Neck Light NNE $\frac{1}{4}$ E, 7 miles; Mattapoisset Light NW by W, 6 $\frac{3}{4}$ miles; 7 $\frac{1}{2}$ fathoms; black mud; 7-foot beam trawl; drift ENE $\frac{1}{4}$ mile.
7618. July 25, 1904. Wings Neck Light NE $\frac{1}{2}$ N, 6 $\frac{1}{4}$ miles; Mattapoisset Light NW by N $\frac{1}{2}$ N, 4 $\frac{3}{4}$ miles; 7 fathoms; soft black mud; 7-foot beam trawl; scrape dredge; drift ENE $\frac{1}{4}$ mile.
7619. July 25, 1904. Wings Neck Light NE by E $\frac{1}{4}$ E, 6 $\frac{1}{4}$ miles; Mattapoisset Light, NNW, 2 $\frac{3}{4}$ miles; 7 fathoms; soft black mud; 7-foot beam trawl; scrape dredge; drift ENE $\frac{1}{4}$ mile.
7620. July 25, 1904. Bird Island Light NE by E, 3 $\frac{1}{4}$ miles; Mattapoisset Light NW by N $\frac{1}{4}$ N, 1 $\frac{3}{4}$ miles; 4 fathoms; black muddy sand; oyster dredge; drift NE $\frac{1}{8}$ mile.
7621. July 27, 1904. Wings Neck Light N $\frac{3}{4}$ E, 6 $\frac{1}{4}$ miles; Mattapoisset Light NW $\frac{1}{4}$ N, 7 $\frac{3}{4}$ miles; 5 $\frac{1}{2}$ fathoms; coarse sand and shell fragments; oyster dredge; drift NNW $\frac{1}{8}$ mile.
7622. July 27, 1904. Wings Neck Light N by E $\frac{3}{4}$ E, 5 $\frac{1}{2}$ miles; Mattapoisset Light NW $\frac{1}{4}$ N, 6 $\frac{1}{4}$ miles; 7 fathoms; black muddy sand; 7-foot beam trawl; scrape dredge; drift NE $\frac{1}{4}$ mile.
7623. July 27, 1904. Wings Neck Light NE $\frac{3}{4}$ N, 4 $\frac{3}{4}$ miles; Mattapoisset NW $\frac{1}{4}$ W, 4 $\frac{3}{4}$ miles; 7 fathoms; black mud; 7-foot beam trawl, scrape dredge; drift N $\frac{1}{4}$ mile.
7624. July 27, 1904. Wings Neck Light NE by E, 4 $\frac{1}{2}$ miles; Mattapoisset NW $\frac{1}{2}$ W, 3 $\frac{1}{4}$ miles; 5 $\frac{1}{2}$ fathoms; muddy sand and shell fragments; 7-foot beam trawl; scrape dredge; drift NE $\frac{1}{4}$ mile.
7625. July 27, 1904. Wings Neck Light E by N $\frac{1}{2}$ N, 4 $\frac{3}{4}$ miles; Mattapoisset Light NW by W $\frac{1}{2}$ W, 2 miles; 4 $\frac{3}{4}$ fathoms; muddy sand; oyster dredge; drift SSW $\frac{1}{4}$ mile.
7626. July 29, 1904. Wings Neck Light N by E, 4 miles; Mattapoisset Light NW by W $\frac{1}{4}$ W, 6 $\frac{1}{2}$ miles; 4 $\frac{3}{4}$ fathoms; muddy sand and shell fragments; oyster dredge; drift SW $\frac{1}{8}$ mile.
7627. July 29, 1904. Wings Neck Light NE by N, 3 $\frac{1}{4}$ miles; Bird Island Light N by W $\frac{3}{4}$ W, 2 $\frac{3}{4}$ miles; 5 $\frac{1}{4}$ fathoms; sandy; 7-foot beam trawl; scrape dredge; drift SW $\frac{1}{4}$ mile.
7628. July 29, 1904. Wings Neck Light NE by E $\frac{1}{2}$ E, 3 miles; Bird Island Light N $\frac{1}{2}$ W, 1 $\frac{3}{8}$ miles; 4 fathoms; muddy sand and shell fragments; oyster dredge; drift SW $\frac{1}{8}$ mile.
7629. July 29, 1904. Black Buoy on Bow Bells SSW $\frac{1}{4}$ W, $\frac{3}{4}$ mile; Bird Island Light E $\frac{1}{2}$ N, $\frac{3}{4}$ mile; 4 fathoms; sandy mud; oyster dredge; drift SW $\frac{1}{8}$ mile.
7630. August 1, 1904. Wings Neck Light N $\frac{3}{4}$ E, 2 $\frac{1}{4}$ miles; Bird Island Light NW $\frac{1}{4}$ W, 3 miles; 4 fathoms; sandy; oyster dredge; drift SW $\frac{1}{8}$ mile.

Station no.

7631. August 1, 1904. Wings Neck Light NE $\frac{1}{4}$ E, $1\frac{3}{4}$ miles; Bird Island Light NW by W $\frac{1}{4}$ W, $1\frac{3}{4}$ miles; 5 fathoms; mud and shells; oyster dredge; drift SW $\frac{1}{8}$ mile.
7632. August 1, 1904. Wings Neck Light E $\frac{1}{4}$ S, 2 miles; Bird Island Light SW by W $\frac{1}{4}$ W, $\frac{3}{4}$ miles; $3\frac{1}{4}$ fathoms; mud; oyster dredge; drift SW $\frac{1}{8}$ mile.
7633. August 1, 1904. Wings Neck Light SE by E, $1\frac{3}{4}$ miles; Bird Island Light SW $\frac{1}{4}$ W, $1\frac{3}{4}$ miles; $3\frac{1}{4}$ fathoms; muddy sand; oyster dredge; drift SW $\frac{1}{8}$ mile.
7634. August 1, 1904. Wings Neck Light SSE, $1\frac{3}{4}$ miles; Bird Island Light SW by W $\frac{1}{4}$ W, $2\frac{1}{2}$ miles; $3\frac{1}{4}$ fathoms; sand and shell fragments; oyster dredge; drift SW $\frac{1}{8}$ mile.
7635. August 1, 1904. Wings Neck NE by E $\frac{1}{4}$ E, $\frac{5}{8}$ mile; Dry Ledge N by W $\frac{3}{4}$ W, 2 miles; $4\frac{3}{4}$ fathoms; muddy sand and shell fragments; oyster dredge; drift SW $\frac{1}{8}$ mile.
7636. August 3, 1904. Nobska Light E by S $\frac{1}{4}$ S, $3\frac{3}{4}$ miles; Little Weepecket Island and Sippowissett Hotel in line SSE $\frac{1}{4}$ E; North Weepecket Island $\frac{1}{2}$ mile; 7 fathoms; rocky with coarse sand; oyster dredge; scrape dredge; drift NW $\frac{1}{8}$ mile.
7637. August 3, 1904. Nobska Light ESE, 5 miles; Sippowissett Hotel E $\frac{3}{4}$ N, $5\frac{1}{4}$ miles; 8 fathoms; black sandy mud; 7-foot beam trawl; oyster dredge; scrape dredge; drift E $\frac{1}{4}$ mile.
7638. August 3, 1904. Nobska Light SE by E $\frac{1}{4}$ E, $6\frac{1}{2}$ miles; Mattapoissett Light N $\frac{1}{2}$ E, 6 miles; 8 fathoms; black sandy mud; 7-foot beam trawl; oyster dredge; drift ENE $\frac{1}{4}$ mile.
7639. August 3, 1904. Nobska Light SE by E, $7\frac{3}{4}$ miles; Cormorant Rock Spindle NE by N, $2\frac{1}{2}$ miles; $5\frac{1}{2}$ fathoms; hard sand and rocks; oyster dredge; drift ENE $\frac{1}{4}$ mile.
7640. August 5, 1904. Large Weepecket Island NE $\frac{3}{4}$ E, $1\frac{1}{2}$ miles; Clark's Point Fort NW $\frac{3}{4}$ N, $8\frac{3}{4}$ miles; 6 fathoms; black sandy mud; oyster dredge; drift NW $\frac{1}{8}$ mile.
7641. August 5, 1904. North Weepecket Island, E $\frac{1}{2}$ N, $2\frac{1}{2}$ miles; Clark's Point Fort NW by N, $7\frac{3}{8}$ miles; $7\frac{1}{2}$ fathoms; soft sandy mud; 7-foot beam trawl; scrape dredge; drift SSE $\frac{1}{4}$ mile.
7642. August 5, 1904. Sippowissett Hotel E $\frac{3}{4}$ N, $7\frac{3}{4}$ miles; Clark's Point Fort NW by N, $5\frac{3}{4}$ miles; 8 fathoms; soft black mud; oyster dredge; drift SSE $\frac{1}{4}$ mile.
7643. August 5, 1904. Clark's Point Fort NW by N $4\frac{1}{4}$ miles; Sippowissett Hotel E $\frac{3}{4}$ S, 8 miles; 7 fathoms; mud and muddy sand; beam trawl; oyster dredge; drift SSE $\frac{1}{4}$ mile.
7644. August 5, 1904. Dumpling Rock Light W by S, $3\frac{1}{4}$ miles; Clark's Point Fort NW by N, 3 miles; $5\frac{1}{2}$ fathoms; sand and mud; beam trawl; scrape dredge; oyster dredge; drift SSE $\frac{1}{8}$ mile.
7645. August 8, 1904. Lookout on West Island E by S $\frac{1}{2}$ S, $2\frac{1}{8}$ miles; Butlers Flat Light NW, $\frac{1}{2}$ mile; 4 fathoms; muddy sand with many cinders; oyster dredge; drift SW $\frac{1}{8}$ mile.
7646. August 8, 1904. Dumpling Rock Light SW $\frac{1}{2}$ S, 3 miles; Scoticut Neck Beacon SE by E $\frac{1}{2}$ E, $1\frac{1}{4}$ miles; 5 fathoms; soft sticky mud; oyster dredge; drift SW $\frac{1}{8}$ mile.
7647. August 8, 1904. Dumpling Rock Light SW $\frac{3}{4}$ W, 3 miles; Clark's Point Fort NW $\frac{3}{4}$ N, $1\frac{1}{2}$ miles; 6 fathoms; soft sandy mud; oyster dredge; drift SW $\frac{1}{8}$ mile.
7648. August 8, 1904. Clark's Point Fort N by E $\frac{1}{4}$ E, 1 mile; bell and black can buoy in line, SE $\frac{3}{4}$ E, $2\frac{1}{4}$ miles; $4\frac{3}{4}$ fathoms; sandy and many cinders; oyster dredge; drift SW $\frac{1}{8}$ mile.
7649. August 8, 1904. Dumpling Rock Light SW, $\frac{1}{8}$ mile; Berekneed Rocks Spindle NW by W $\frac{1}{2}$ W, 1 mile; $5\frac{1}{2}$ fathoms; soft mud; oyster dredge; drift SW $\frac{1}{8}$ mile.
7650. August 8, 1904. Dumpling Rock Light W $\frac{3}{4}$ S, $1\frac{3}{8}$ miles; Clark's Point Fort N $\frac{1}{4}$ E, $2\frac{3}{4}$ miles; 7 fathoms; sandy mud; oyster dredge; drift SW $\frac{1}{8}$ mile.
- 7651.^a August 11, 1904. North Rock and tangent of Pasque Island in line, $1\frac{1}{8}$ miles; Lone Rocks Bell Buoy W by N $\frac{1}{2}$ N, $1\frac{1}{4}$ miles; $7\frac{1}{2}$ fathoms; soft black mud; oyster dredge.
7652. August 11, 1904. Lone Rock buoy W $\frac{3}{4}$ S, $2\frac{1}{8}$ miles; south end Big Weepecket Island NE by E $\frac{3}{4}$ E, $3\frac{1}{8}$ miles; 7 fathoms; soft sandy mud; oyster dredge; drift NW $\frac{1}{8}$ mile.
7653. August 11, 1904. Lone Rock buoy SW $\frac{1}{2}$ W, $2\frac{5}{8}$ miles; North Weepecket Island E by N, $4\frac{1}{8}$ miles; 8 fathoms; black sandy mud; beam trawl, scrape dredge; drift SW $\frac{1}{4}$ mile.
7654. August 11, 1904. West end Penikese Island SW by W, 5 miles; Dumpling Rock Light NW $\frac{3}{4}$ W, $3\frac{7}{8}$ miles; 9 fathoms; black sandy mud; 7-foot beam trawl, scrape dredge; drift SW $\frac{1}{4}$ mile.
7655. August 11, 1904. West end Penikese Island SW $\frac{1}{2}$ S, $5\frac{1}{4}$ miles; Dumpling Rock Light WNW, $2\frac{3}{8}$ miles; $7\frac{1}{2}$ fathoms; black sandy mud; oyster dredge; drift SW $\frac{1}{4}$ mile.
7656. August 12, 1904. North end Penikese Island W by S, $3\frac{1}{2}$ miles; Dumpling Rock Light NNW $\frac{3}{4}$ W, $4\frac{7}{8}$ miles; 8 fathoms; sandy mud; 7-foot beam trawl, scrape dredge; drift NE $\frac{1}{8}$ mile.

^a This station as plotted on the chart is considerably nearer shore than the bearings given would indicate.

Station no.

7657. August 12, 1904. North end Penikese Island SW $\frac{1}{2}$ W, $3\frac{1}{4}$ miles; Dumpling Rock Light NNW $\frac{1}{2}$ W, $3\frac{1}{4}$ miles; 8 fathoms; sandy mud; 7-foot beam trawl, scrape dredge; drift SW $\frac{1}{4}$ mile.
7658. August 12, 1904. Hen and Chickens Lightship SW by W $\frac{3}{4}$ W, $6\frac{3}{8}$ miles; Dumpling Rock Light NNW, $1\frac{3}{4}$ miles; 9 fathoms; black mud; oyster dredge.
7659. August 12, 1904. Mishaum Point SW by W $\frac{1}{2}$ W, $1\frac{3}{4}$ miles; Dumpling Rock Light NNE, $\frac{3}{8}$ mile; $5\frac{1}{4}$ fathoms; rocky, with gravel and shell fragments; oyster dredge; drift SW $\frac{1}{8}$ mile.
7660. August 12, 1904. Hens and Chickens Lightship SW by W $\frac{1}{2}$ W, $4\frac{3}{4}$ miles; Dumpling Rock Light NNE $\frac{1}{2}$ E, $2\frac{3}{8}$ miles; $7\frac{1}{2}$ fathoms; muddy; 7-foot beam trawl, scrape dredge; drift SW $\frac{1}{8}$ mile.
7661. August 12, 1904. Hen and Chickens Lightship W by S, $5\frac{1}{4}$ miles; Dumpling Rock Light N $\frac{1}{4}$ E, $3\frac{3}{8}$ miles; $13\frac{1}{2}$ fathoms; muddy; 7-foot beam trawl, scrape dredge; drift SW $\frac{1}{4}$ mile.
7662. August 12, 1904. Hen and Chickens Lightship W $\frac{1}{4}$ N, 6 miles; Dumpling Rock Light N $\frac{1}{2}$ W, $4\frac{3}{4}$ miles; 10 fathoms; soft mud; 7-foot beam trawl, scrape dredge; drift SW $\frac{1}{4}$ mile.
7663. August 12, 1904. North Rock E by N $\frac{3}{4}$ N, $\frac{1}{2}$ mile; Dumpling Rock Light N by W $\frac{1}{4}$ W, 6 miles; 7 fathoms; mud and shells; 7-foot beam trawl, scrape dredge; drift SW $\frac{1}{8}$ mile.
7664. August 15, 1904. Cuttyhunk Light E $\frac{3}{4}$ N, $\frac{5}{8}$ mile; Hen and Chickens Lightship NW $\frac{3}{4}$ N, $3\frac{3}{8}$ miles; 12 fathoms; small stones; oyster dredge; drift SW $\frac{1}{8}$ mile.
7665. August 15, 1904. Cuttyhunk Light SE by E $1\frac{5}{8}$ miles; Hen and Chickens Lightship NW $\frac{3}{4}$ N, $2\frac{1}{8}$ miles; $11\frac{1}{2}$ fathoms; rocky and sandy; oyster dredge; drift SW $\frac{1}{8}$ mile.
7666. August 15, 1904. North end Penikese Island E, 4 miles; Hen and Chickens Lightship NW $\frac{3}{4}$ N, $\frac{3}{4}$ mile; 11 fathoms; rocky and small stones; oyster dredge; drift SW $\frac{1}{8}$ mile.
7667. August 15, 1904. Dumpling Rock Light NE by E, $6\frac{7}{8}$ miles; Hen and Chickens Lightship SE by S $\frac{1}{2}$ S, $\frac{3}{4}$ mile; 9 fathoms; small stones; oyster dredge; drift SW $\frac{1}{8}$ mile.
7668. August 15, 1904. Mishaum Point NE by E $\frac{3}{4}$ E, $3\frac{1}{4}$ miles; Cuttyhunk Light SSE, 5 miles; 8 fathoms; muddy sand; oyster dredge; drift SW $\frac{1}{8}$ mile.
7669. August 15, 1904. Dumpling Rock Light NE, $5\frac{3}{8}$ miles; Cuttyhunk Light S by E $\frac{3}{4}$ E, $3\frac{3}{8}$ miles; 13 fathoms; black sandy mud; oyster dredge.
7670. August 15, 1904. Dumpling Rock Light NE by N $\frac{1}{4}$ N, 6 miles; north end Penikese Island E $\frac{1}{2}$ N, 2 miles; 19 fathoms(?); small stones; oyster dredge; drift SW $\frac{1}{8}$ mile.
7671. August 15, 1904. Cuttyhunk Life-Saving Station SE by E $\frac{1}{2}$ E, $1\frac{1}{4}$ miles; Cuttyhunk Light SW $\frac{3}{4}$ S, 1 mile; 9 fathoms; stones and muddy sand; 7-foot beam trawl, oyster dredge; drift SW $\frac{1}{4}$ mile.
7672. August 17, 1904. Cuttyhunk Light SW by S, $2\frac{5}{8}$ miles; Hen and Chickens Lightship W $\frac{1}{2}$ N, 4 miles; 10 fathoms; small stones, sand, and shells; oyster dredge; drift SW $\frac{1}{8}$ mile.
7673. August 17, 1904. Cuttyhunk Light S $\frac{3}{4}$ W, $3\frac{1}{2}$ miles; Hen and Chickens Lightship W by S, $3\frac{1}{4}$ miles; 17 fathoms; sandy mud and stones; beam trawl, scrape dredge; drift SW $\frac{1}{4}$ mile.
7674. August 17, 1904. Dumpling Rock Light NE $\frac{1}{2}$ E, 4 miles; Cuttyhunk Life-Saving Station SE by S $\frac{1}{2}$ S, $4\frac{3}{4}$ miles; 7 fathoms; coarse sand and mud; oyster dredge; drift SW $\frac{1}{4}$ mile.
7675. August 17, 1904. Mishaum Point E by N, 2 miles; Hen and Chickens Lightship SW by S $\frac{1}{2}$ S, $3\frac{3}{8}$ miles; $6\frac{3}{4}$ fathoms; muddy sand; beam trawl, oyster dredge; drift SW $\frac{1}{8}$ mile.
7676. July 17, 1905. Gay Head Light SW $\frac{1}{4}$ S, Prospect Hill SE by E $\frac{1}{4}$ E; $9\frac{1}{2}$ fathoms; hard sand; 7-foot beam trawl.
7677. July 17, 1905. Gay Head Light S by W $\frac{1}{2}$ W, Prospect Hill ESE $\frac{1}{8}$ E, $11\frac{1}{2}$ fathoms; hard sand; 7-foot beam trawl; scrape dredge.
7678. July 17, 1905. Prospect Hill SE by S, Gay Head Light SW $\frac{3}{4}$ W, $12\frac{1}{2}$ fathoms; hard sand; 7-foot beam trawl, scrape dredge. (Very little in the scrape dredge.)
7679. July 24, 1905. (a) Pasque-Nashawena $40^{\circ} 47'$, Nashawena-Cuttyhunk $27^{\circ} 05'$; (b) Pasque-Nashawena $38^{\circ} 36'$, Nashawena-Cuttyhunk $23^{\circ} 44'$; $13\frac{1}{2}$ fathoms; sand and shells; 6-foot beam trawl and scrape dredge.
7680. July 24, 1905. (a) Pasque-Nashawena $33^{\circ} 22'$, Nashawena-Cuttyhunk $22^{\circ} 30'$; (b) Pasque-Nashawena $33^{\circ} 35'$, Nashawena-Cuttyhunk $22^{\circ} 20'$; (c) Pasque-Nashawena $32^{\circ} 47'$, Nashawena-Cuttyhunk $22^{\circ} 19'$; $13\frac{1}{2}$ fathoms; hard sand; 6-foot trawl and scrape dredge.
7681. July 24, 1905. (a) Pasque-Nashawena $35^{\circ} 56'$, Nashawena-Cuttyhunk $31^{\circ} 05'$; (b) Pasque-Nashawena $34^{\circ} 41'$, Nashawena-Cuttyhunk $29^{\circ} 11'$; (c) Pasque-Nashawena $33^{\circ} 05'$, Nashawena-Cuttyhunk $28^{\circ} 08'$; $13\frac{1}{2}$ fathoms; hard sand; 6-foot trawl; scrape dredge.

Station no.

7682. July 24, 1905. (a) Pasque-Nashawena $37^{\circ} 40'$, Nashawena-Cuttyhunk $19^{\circ} 07'$; (b) Tarpaulin Cove-Nashawena $89^{\circ} 08'$, Nashawena-Gay Head $95^{\circ} 09'$; (c) Tarpaulin Cove-Nashawena $91^{\circ} 09'$; Nashawena-Gay Head $89^{\circ} 37'$; 19 fathoms(?); hard sand, mud, and shells; 6-foot trawl and scrape dredge.
7683. July 26, 1905. (a) Gay Head-Nashawena $127^{\circ} 48'$, Nashawena-Cuttyhunk $61^{\circ} 07'$; (b) Gay Head-Nashawena $120^{\circ} 50'$, Nashawena-Cuttyhunk $60^{\circ} 00'$; (c) Gay Head-Nashawena $114^{\circ} 41'$, Nashawena-Cuttyhunk $61^{\circ} 45'$; $19\frac{1}{2}$ (?) fathoms; hard sand; 7-foot beam trawl, mud bag and oyster dredge.
7684. July 26, 1905. (a) Gay Head-Nashawena $105^{\circ} 43'$, Nashawena-Cuttyhunk $59^{\circ} 40'$; (b) Gay Head-Nashawena $100^{\circ} 30'$, Nashawena-Cuttyhunk $57^{\circ} 33'$; (c) Gay Head-Nashawena $94^{\circ} 13'$, Nashawena-Cuttyhunk $55^{\circ} 43'$; $13\frac{1}{2}$ fathoms; hard sand; 7-foot beam trawl, mud bag, oyster dredge.
7685. July 26, 1905. (a) Gay Head-Nashawena $129^{\circ} 44'$, Nashawena-Cuttyhunk $75^{\circ} 42'$; (b) Gay Head-Nashawena $123^{\circ} 46'$, Nashawena-Cuttyhunk $75^{\circ} 20'$; (c) Gay Head-Nashawena $116^{\circ} 59'$, Nashawena-Cuttyhunk $77^{\circ} 46'$; 17 fathoms; hard sand; 7-foot beam trawl, mud bag, and oyster dredge.
7686. July 26, 1905. (a) Gay Head-Nashawena $102^{\circ} 34'$, Nashawena-Cuttyhunk $73^{\circ} 55'$; (b) Gay Head-Nashawena $99^{\circ} 42'$, Nashawena-Cuttyhunk $71^{\circ} 15'$; (c) Gay Head-Nashawena $93^{\circ} 52'$, Nashawena-Cuttyhunk $68^{\circ} 34'$; $17\frac{1}{2}$ fathoms; hard sand; 7-foot beam trawl, mud bag, and oyster dredge.
7687. July 26, 1905. (a) Gay Head-Nashawena $105^{\circ} 11'$, Nashawena-Cuttyhunk $109^{\circ} 25'$; (b) Gay Head-Nashawena $103^{\circ} 67'$, Nashawena-Cuttyhunk $104^{\circ} 43'$; (c) Gay Head-Nashawena $97^{\circ} 52'$, Nashawena-Cuttyhunk $103^{\circ} 23'$; 12 fathoms; hard sand; 7-foot beam trawl, mud bag, oyster dredge.
7688. July 26, 1905. (a) Gay Head-Nashawena $90^{\circ} 36'$, Nashawena-Cuttyhunk $96^{\circ} 36'$; (b) Gay Head-Nashawena $85^{\circ} 42'$, Nashawena-Cuttyhunk $90^{\circ} 57'$; (c) Gay Head-Nashawena $79^{\circ} 59'$, Nashawena-Cuttyhunk $90^{\circ} 38'$; (d) Gay Head-Nashawena $76^{\circ} 37'$, Nashawena-Cuttyhunk $92^{\circ} 44'$; 13 fathoms; hard, coarse sand; 7-foot beam trawl, mud bag, oyster dredge.
7689. July 26, 1905. (a) Nashawena-Cuttyhunk Life Saving Station $92^{\circ} 12'$, Life-Saving Station-Cuttyhunk Light $46^{\circ} 59'$; (b) Nashawena-Cuttyhunk Life-Saving Station $69^{\circ} 21'$, Life-Saving Station-Cuttyhunk Light $54^{\circ} 40'$; (c) Nashawena-Cuttyhunk Life-Saving Station $59^{\circ} 20'$, Life-Saving Station-Cuttyhunk Light $57^{\circ} 46'$; 9 fathoms; hard sand and rocks; 7-foot beam trawl, mud bag, oyster dredge.
7690. July 26, 1905. (a) Gay Head-Nashawena $70^{\circ} 11'$, Nashawena-Cuttyhunk $106^{\circ} 47'$; (b) Gay Head-Nashawena $71^{\circ} 03'$, Nashawena-Cuttyhunk $106^{\circ} 57'$; (c) Gay Head-Nashawena $71^{\circ} 14'$, Nashawena-Cuttyhunk $93^{\circ} 31'$; 9 fathoms; rocky; 7-foot beam trawl, mud bag, oyster dredge.
7691. July 26, 1905. (a) Gay Head-Nashawena $69^{\circ} 46'$, Nashawena-Cuttyhunk $119^{\circ} 59'$; (b) Gay Head-Nashawena $70^{\circ} 33'$, Nashawena-Cuttyhunk $113^{\circ} 58'$; 9 fathoms; rocky; 7-foot beam trawl, mud bag, oyster dredge.
7692. July 26, 1905. (a) Gay Head-Nashawena $61^{\circ} 57'$, Nashawena-Cuttyhunk $80^{\circ} 86'$; (b) Gay Head-Nashawena $60^{\circ} 40'$, Nashawena-Cuttyhunk $72^{\circ} 07'$; 9 fathoms, rocky; 7-foot beam trawl, mud bag, oyster dredge.
7693. July 26, 1905. (a) Gay Head-Nashawena $82^{\circ} 15'$, Nashawena-Cuttyhunk $132^{\circ} 50'$; (b) Gay Head-Nashawena $87^{\circ} 44'$, Nashawena-Cuttyhunk $132^{\circ} 59'$; (c) Nashawena-Cuttyhunk Life-Saving Station $117^{\circ} 41'$, Life-Saving Station-Cuttyhunk Light $11^{\circ} 55'$; 11 fathoms; rocky bottom; 7-foot beam trawl, oyster dredge, mud bag.
7694. July 26, 1905. (a) Naushon SW-Nashawena $46^{\circ} 37'$, Nashawena-Cuttyhunk $99^{\circ} 32'$; (b) Naushon SW-Nashawena $80^{\circ} 13'$, Nashawena-Cuttyhunk $66^{\circ} 06'$; (c) Naushon SW-Pasque $29^{\circ} 01'$, Pasque Nashawena $82^{\circ} 13'$; $12\frac{1}{2}$ fathoms; rocky; 7-foot beam trawl, mud bag, oyster dredge.
7695. July 26, 1905. (a) Naushon SW-Pasque $51^{\circ} 25'$, Pasque-Nashawena $90^{\circ} 38'$; (b) Naushon SW-Pasque $61^{\circ} 47'$, Pasque-Nashawena $80^{\circ} 03'$; (c) Naushon SW-Pasque $66^{\circ} 59'$, Pasque-Nashawena $71^{\circ} 56'$; $10\frac{1}{2}$ fathoms; sandy; 7-foot beam trawl, mud bag, oyster dredge.
7696. July 26, 1905. (a) Naushon SW-Pasque $81^{\circ} 18'$, Pasque-Nashawena $56^{\circ} 28'$; (b) Naushon SW-Pasque $85^{\circ} 04'$, Pasque-Nashawena $47^{\circ} 40'$; (c) Naushon SW-Pasque $81^{\circ} 31'$, Pasque-Nashawena $41^{\circ} 33'$; 10 fathoms; sandy; 7-foot beam trawl, mud bag, oyster dredge.

Station no.

7697. July 26, 1905. (a) Tarpaulin Cove-Naushon SW $36^{\circ} 41'$, Naushon SW-Pasque $66^{\circ} 33'$; (b) Tarpaulin Cove-Naushon SW $56^{\circ} 34'$, Naushon SW-Pasque $45^{\circ} 39'$; (c) Tarpaulin Cove-Naushon SW $66^{\circ} 00'$, Naushon SW-Pasque $32^{\circ} 43'$; sand and mud; 7-foot beam trawl, mud bag, and oyster dredge.
7698. July 28, 1905. (a) Nashawena-Gay Head $90^{\circ} 02'$, Gay Head-Prospect Hill $75^{\circ} 27'$; (b) Nashawena-Gay Head $89^{\circ} 33'$, Gay Head-Prospect Hill $73^{\circ} 21'$; (c) Nashawena-Gay Head $87^{\circ} 06'$, Gay Head-Prospect Hill $71^{\circ} 14'$; (d) Nashawena-Gay Head $84^{\circ} 45'$; Gay Head-Prospect Hill $69^{\circ} 56'$; 12 fathoms; sandy.
7699. July 28, 1905. (a) Nashawena-Gay Head $87^{\circ} 33'$, Gay Head-Prospect Hill $68^{\circ} 49'$; (b) Nashawena-Gay Head $91^{\circ} 08'$, Gay Head-Prospect Hill $68^{\circ} 31'$; (c) Nashawena-Gay Head $93^{\circ} 22'$, Gay Head-Prospect Hill $67^{\circ} 41'$; 10 fathoms; hard sand.
7700. July 28, 1905. (a) Nashawena-Gay Head $92^{\circ} 20'$, Gay Head-Prospect Hill $66^{\circ} 35'$; (b) Nashawena-Gay Head $98^{\circ} 39'$, Gay Head-Prospect Hill $64^{\circ} 17'$; (c) Nashawena-Gay Head $99^{\circ} 16'$, Gay Head-Prospect Hill $62^{\circ} 54'$; (d) Nashawena-Gay Head $99^{\circ} 52'$, Gay Head-Prospect Hill $61^{\circ} 19'$; 10 fathoms; sand.
7701. July 28, 1905. (a) Nashawena-Gay Head $101^{\circ} 35'$, Gay Head-Prospect Hill $58^{\circ} 19'$; (b) Nashawena-Gay Head $101^{\circ} 36'$, Gay Head-Prospect Hill $56^{\circ} 31'$; (c) Nashawena-Gay Head $101^{\circ} 01'$, Gay Head-Prospect Hill $54^{\circ} 45'$; (d) Nashawena-Gay Head $100^{\circ} 55'$, Gay Head-Prospect Hill $53^{\circ} 17'$; 13 fathoms; sand.
7702. July 28, 1905. (a) Nashawena-Gay Head $121^{\circ} 43'$, Gay Head-Prospect Hill $68^{\circ} 43'$; (b) Nashawena-Gay Head $124^{\circ} 15'$, Gay Head-Prospect Hill $66^{\circ} 01'$; (c) Nashawena-Gay Head $125^{\circ} 25'$, Gay Head-Prospect Hill $64^{\circ} 02'$; (d) Nashawena-Gay Head $126^{\circ} 27'$, Gay Head-Prospect Hill $62^{\circ} 26'$; 13 fathoms; sand.
7703. July 28, 1905. (a) Nashawena-Gay Head $129^{\circ} 05'$, Gay Head-Prospect Hill $55^{\circ} 23'$; (b) Nashawena-Gay Head $129^{\circ} 20'$, Gay Head-Prospect Hill $53^{\circ} 00'$; (c) Nashawena-Gay Head $129^{\circ} 45'$, Gay Head-Prospect Hill $51^{\circ} 36'$; (d) Nashawena-Gay Head $129^{\circ} 55'$, Gay Head-Prospect Hill $50^{\circ} 08'$; 12 to 7 fathoms; sand.
7704. July 31, 1905. (a) Pasque-Nashawena $72^{\circ} 12'$, Nashawena-Cuttyhunk $43^{\circ} 23'$; (b) Pasque-Nashawena $63^{\circ} 47'$, Nashawena-Cuttyhunk $47^{\circ} 44'$; (c) Pasque-Nashawena $57^{\circ} 55'$; Nashawena-Cuttyhunk $49^{\circ} 37'$; $10\frac{1}{4}$ fathoms; sand.
7705. July 31, 1905. (a) Pasque-Nashawena $53^{\circ} 47'$, Nashawena-Cuttyhunk $43^{\circ} 55'$; (b) Pasque-Nashawena $51^{\circ} 32'$; Nashawena-Cuttyhunk $41^{\circ} 20'$; (c) Pasque-Nashawena $48^{\circ} 52'$, Nashawena-Cuttyhunk $39^{\circ} 53'$; $7\frac{1}{2}$ fathoms; sand.
7706. July 31, 1905. (a) Pasque-Nashawena $43^{\circ} 33'$, Nashawena-Cuttyhunk $38^{\circ} 13'$; (b) Pasque-Nashawena $41^{\circ} 52'$, Nashawena-Cuttyhunk $37^{\circ} 24'$; (c) Pasque-Nashawena $40^{\circ} 16'$, Nashawena-Cuttyhunk $36^{\circ} 02'$; (d) Pasque-Nashawena $38^{\circ} 49'$, Nashawena-Cuttyhunk $34^{\circ} 55'$; $13\frac{1}{2}$ fathoms; sand.
7707. July 31, 1905. (a) Pasque-Cuttyhunk $63^{\circ} 41'$, Cuttyhunk-Gay Head $131^{\circ} 22'$; (b) Pasque-Nashawena (rejected), Nashawena-Cuttyhunk (rejected); (c) Pasque-Nashawena $29^{\circ} 26'$; Nashawena-Cuttyhunk $38^{\circ} 25'$; 15 fathoms; sand.
7708. July 31, 1905. (a) Pasque-Nashawena $30^{\circ} 23'$, Nashawena-Cuttyhunk $41^{\circ} 34'$; (b) Pasque-Nashawena $31^{\circ} 14'$, Nashawena-Cuttyhunk $43^{\circ} 51'$; (c) Pasque-Nashawena $32^{\circ} 27'$, Nashawena-Cuttyhunk $44^{\circ} 32'$; $13\frac{1}{2}$ fathoms; sand.
7709. July 31, 1905. (a) Pasque-Nashawena $33^{\circ} 35'$, Nashawena-Cuttyhunk $48^{\circ} 02'$; (b) Pasque-Nashawena $33^{\circ} 41'$, Nashawena-Cuttyhunk $51^{\circ} 10'$; (c) Pasque-Nashawena $34^{\circ} 43'$, Nashawena-Cuttyhunk $53^{\circ} 15'$; $13\frac{1}{2}$ fathoms; sand.
7710. July 31, 1905. (a) Pasque-Nashawena $30^{\circ} 26'$, Nashawena-Cuttyhunk $65^{\circ} 37'$; (b) Pasque-Nashawena $27^{\circ} 51'$, Nashawena-Cuttyhunk $71^{\circ} 53'$; (c) Pasque-Nashawena $26^{\circ} 10'$, Nashawena-Cuttyhunk $75^{\circ} 23'$; (d) Pasque-Nashawena $25^{\circ} 47'$, Nashawena-Cuttyhunk $77^{\circ} 02'$; $13\frac{1}{2}$ fathoms; fine sand.
7717. August 4, 1905. (a) Naushon SW-Nashawena $45^{\circ} 16'$; Nashawena-Cuttyhunk $52^{\circ} 46'$; (b) Naushon SW-Nashawena $46^{\circ} 57'$, Nashawena-Cuttyhunk $50^{\circ} 12'$; (c) Naushon SW-Nashawena $48^{\circ} 15'$, Nashawena-Cuttyhunk $48^{\circ} 27'$; $13\frac{1}{2}$ fathoms; sand; beam trawl and scrape dredge.

Station no.

7718. August 4, 1905. (a) Naushon SW-Nashawena $43^{\circ} 32'$, Nashawena-Cuttyhunk $45^{\circ} 55'$; (b) Naushon SW-Nashawena $43^{\circ} 59'$, Nashawena-Cuttyhunk $44^{\circ} 25'$; (c) Naushon SW-Nashawena $44^{\circ} 17'$, Nashawena-Cuttyhunk $43^{\circ} 26'$; 14 fathoms; sand and shells; beam trawl and scrape dredge.
7719. August 4, 1905. (a) Naushon SW-Nashawena $43^{\circ} 01'$, Nashawena-Cuttyhunk $40^{\circ} 30'$; (b) Naushon SW-Nashawena $42^{\circ} 57'$, Nashawena-Cuttyhunk $39^{\circ} 47'$; (c) Naushon SW-Nashawena $42^{\circ} 57'$, Nashawena-Cuttyhunk $39^{\circ} 15'$; (d) Naushon SW-Nashawena $42^{\circ} 57'$, Nashawena-Cuttyhunk $38^{\circ} 48'$; 17 fathoms; sand and shells; beam trawl and scrape dredge.
7720. August 4, 1905. (a) Naushon SW-Nashawena $42^{\circ} 51'$, Nashawena-Cuttyhunk $37^{\circ} 31'$; (b) Naushon SW-Nashawena $42^{\circ} 00'$, Nashawena-Cuttyhunk $37^{\circ} 08'$; (c) Naushon SW-Nashawena $41^{\circ} 01'$, Nashawena-Cuttyhunk $37^{\circ} 12'$; $13\frac{1}{2}$ fathoms; sand and shells; beam trawl and scrape dredge.
7721. August 4, 1905. (a) Naushon SW-Nashawena $32^{\circ} 50'$, Nashawena-Cuttyhunk $51^{\circ} 13'$; (b) Naushon SW-Nashawena $33^{\circ} 15'$, Nashawena-Cuttyhunk $49^{\circ} 30'$; (c) Naushon SW-Nashawena $33^{\circ} 47'$, Nashawena-Cuttyhunk $47^{\circ} 39'$; 11 fathoms; sandy; beam trawl and scrape dredge.
7722. August 4, 1905. (a) Naushon SW-Nashawena $37^{\circ} 27'$, Nashawena-Cuttyhunk $40^{\circ} 51'$; (b) Naushon SW-Nashawena $37^{\circ} 55'$, Nashawena-Cuttyhunk $39^{\circ} 30'$; (c) Naushon SW-Nashawena $38^{\circ} 12'$, Nashawena-Cuttyhunk $38^{\circ} 28'$; 13 fathoms; hard sand; beam trawl and scrape dredge.
7723. August 4, 1905. (a) Cuttyhunk-Gay Head $77^{\circ} 59'$, Gay Head-Prospect Hill $126^{\circ} 35'$; (b) (rejected); (c) Cuttyhunk Life-Saving Station-Gay Head $88^{\circ} 24'$, Gay Head-Prospect Hill $112^{\circ} 33'$; 13 fathoms; hard sand.
7724. August 8, 1905. (a) Gay Head-Prospect Hill $141^{\circ} 44'$, Prospect Hill-tangent Cedar Tree Neck $66^{\circ} 58'$; (b) Gay Head-Prospect Hill $133^{\circ} 35'$, Prospect Hill-tangent Cedar Tree Neck $69^{\circ} 42'$; (c) Gay Head-Prospect Hill $127^{\circ} 29'$, Prospect Hill-tangent Cedar Tree Neck $72^{\circ} 15'$; 10 fathoms; hard sand; 9-foot beam trawl, mud bag.
7725. August 8, 1905. (a) Gay Head-Prospect Hill $116^{\circ} 32'$, Prospect Hill-tangent Cedar Tree Neck $75^{\circ} 49'$; (b) Gay Head-Prospect Hill $111^{\circ} 44'$, Prospect Hill-tangent Cedar Tree Neck $76^{\circ} 55'$; (c) Gay Head-Prospect Hill $108^{\circ} 59'$, Prospect Hill-tangent Cedar Tree Neck $76^{\circ} 25'$; 10 fathoms; hard sand; 9-foot beam trawl and mud bag.
7726. August 8, 1905. (a) Gay Head-Prospect Hill $105^{\circ} 24'$, Prospect Hill-Tarpaulin Cove $111^{\circ} 33'$; (b) Gay Head-Prospect Hill $102^{\circ} 57'$, Prospect Hill-Tarpaulin Cove $108^{\circ} 41'$; (c) Gay Head-Prospect Hill $100^{\circ} 44'$, Prospect Hill-Tarpaulin Cove $106^{\circ} 59'$; 15 to $13\frac{1}{2}$ fathoms; sandy mud; 9-foot beam trawl and mud bag.
7727. August 8, 1905. (a) Gay Head-Prospect Hill $93^{\circ} 07'$, Prospect Hill-Tarpaulin Cove $103^{\circ} 56'$; (b) Gay Head-Prospect Hill $89^{\circ} 45'$, Prospect Hill-Tarpaulin Cove $103^{\circ} 31'$; (c) Gay Head-Prospect Hill $87^{\circ} 21'$, Prospect Hill-Tarpaulin Cove $103^{\circ} 18'$; 12 fathoms; hard sand; 9-foot beam trawl and mud bag.
7728. August 8, 1905. (a) Prospect Hill-Pasque $98^{\circ} 45'$, Pasque-Gay Head $83^{\circ} 03'$; (b) Prospect Hill-Pasque $104^{\circ} 51'$, Pasque-Gay Head $88^{\circ} 23'$; (c) Prospect Hill-Pasque $107^{\circ} 45'$, Pasque-Gay Head $90^{\circ} 57'$; 8 fathoms; sticky mud; 9-foot beam trawl and mud bag.
7729. August 8, 1905. (a) Prospect Hill-Pasque $116^{\circ} 51'$, Pasque Gay-Head $101^{\circ} 01'$; (b) Gay Head-Prospect Hill $134^{\circ} 30'$, Prospect Hill-tangent Cedar Tree Neck $50^{\circ} 52'$; (c) Gay Head-Prospect Hill $129^{\circ} 24'$, Prospect Hill-tangent Cedar Tree Neck $50^{\circ} 52'$; $10\frac{1}{2}$ fathoms; hard sand; 9-foot beam trawl and mud bag.
7730. August 8, 1905. (a) Prospect Hill-Nashawena $115^{\circ} 59'$, Nashawena-Gay Head $87^{\circ} 59'$; (b) Prospect Hill-Pasque $92^{\circ} 27'$, Pasque-Gay Head $115^{\circ} 22'$; (c) Prospect Hill-Pasque $101^{\circ} 57'$, Pasque-Gay Head $118^{\circ} 41'$; 12 fathoms; hard sand; 9-foot beam trawl and mud bag.
7731. August 8, 1905. (a) Naushon SW-Nashawena $43^{\circ} 17'$, Nashawena-Cuttyhunk $30^{\circ} 06'$; (b) Naushon SW-Nashawena $42^{\circ} 05'$, Nashawena-Cuttyhunk $29^{\circ} 48'$; (c) Naushon SW-Nashawena $41^{\circ} 35'$, Nashawena Cuttyhunk $29^{\circ} 39'$; 12 fathoms; hard sand; 9-foot beam trawl and mud bag.
7732. August 10, 1905. (a) Naushon SW-Tarpaulin Cove $59^{\circ} 26'$, Tarpaulin Cove-Nashawena $37^{\circ} 34'$; (b) Naushon SW-Tarpaulin Cove $53^{\circ} 01'$, Tarpaulin Cove-Nashawena $38^{\circ} 43'$; (c) Naushon SW-Tarpaulin Cove $51^{\circ} 32'$; Tarpaulin Cove-Nashawena $40^{\circ} 30'$; $12\frac{1}{2}$ fathoms; sand and pebbles; 9-foot beam trawl, scrape dredge.

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7733. August 10, 1905. (a) Naushon SW-Tarpaulin Cove $16^{\circ} 40'$, Tarpaulin Cove-Nashawena $67^{\circ} 51'$; (b) Naushon SW-Tarpaulin Cove $16^{\circ} 42'$, Tarpaulin Cove-Nashawena $63^{\circ} 22'$; (c) Naushon SW-Tarpaulin Cove $16^{\circ} 18'$, Tarpaulin Cove-Nashawena $58^{\circ} 13'$; 13 fathoms; pebbles; 9-foot beam trawl, scrape dredge.
7734. August 10, 1905. (a) Tarpaulin Cove-Naushon SW $31^{\circ} 18'$, Naushon SW-Pasque $52^{\circ} 28'$; (b) Tarpaulin Cove-Naushon SW $31^{\circ} 47'$, Naushon SW-Pasque $48^{\circ} 48'$; (c) Tarpaulin Cove-Naushon SW $31^{\circ} 30'$, Naushon SW-Pasque $45^{\circ} 55'$; $10\frac{1}{2}$ fathoms; sand and shells; 9-foot beam trawl and scrape dredge.
7735. August 10, 1905. (a) Gay Head-Prospect Hill $66^{\circ} 00'$, Prospect Hill-Kopeecon Point $43^{\circ} 57'$; (b) Gay Head-Prospect Hill $68^{\circ} 38'$, Prospect Hill-Kopeecon Point $47^{\circ} 21'$; (c) Gay Head-Prospect Hill $71^{\circ} 04'$, Prospect Hill-Kopeecon Point $50^{\circ} 31'$; 9 fathoms; sand; 9-foot beam trawl and scrape dredge.
7736. August 10, 1905. (a) Prospect Hill-Kopeecon Point $56^{\circ} 20'$, Kopeecon Point-Tarpaulin Cove $112^{\circ} 03'$; (b) Prospect Hill-Kopeecon Point $60^{\circ} 21'$, Kopeecon Point-Tarpaulin Cove $108^{\circ} 13'$; (c) Kopeecon Point-Tarpaulin Cove $106^{\circ} 24'$; 13 fathoms; sand and shells; 9-foot beam trawl and scrape dredge.
7737. August 12, 1905. (a) Nobska-Naushon Tripod $120^{\circ} 51'$, Naushon Tripod-Tarpaulin Cove $32^{\circ} 08'$; (b) Nobska-Naushon Tripod $115^{\circ} 18'$, Naushon Tripod-Tarpaulin Cove $32^{\circ} 31'$; (c) Nobska-Naushon Tripod $115^{\circ} 15'$, Naushon Tripod-Tarpaulin Cove $32^{\circ} 51'$; 12 fathoms; pebbles.
7738. August 12, 1905. (a) Nobska-Naushon Tripod $85^{\circ} 18'$, Naushon Tripod-Tarpaulin Cove $72^{\circ} 44'$; (b) Nobska-Naushon Tripod $83^{\circ} 43'$, Naushon Tripod-Tarpaulin Cove $71^{\circ} 38'$; (c) (Dredge caught). 12 fathoms; sand and gravel.
7739. August 12, 1905. (a) Nobska-Naushon Tripod $74^{\circ} 21'$, Naushon Tripod-Tarpaulin Cove $37^{\circ} 56'$; (b) Nobska-Naushon Tripod $70^{\circ} 36'$, Naushon Tripod-Naushon SW $61^{\circ} 06'$; (c) Nobska-Naushon Tripod $67^{\circ} 14'$, Naushon Tripod-Tarpaulin Cove $34^{\circ} 38'$; 8 fathoms; sand and gravel.
7740. August 12, 1905. (a) Kopeecon Point-Indian Hill $73^{\circ} 16'$, Indian Hill-Nortons Point $48^{\circ} 02'$; (b) Kopeecon Point-Indian Hill $78^{\circ} 33'$, Indian Hill-Nortons Point $46^{\circ} 22'$; (c) Kopeecon Point-Indian Hill $80^{\circ} 03'$, Indian Hill-Nortons Point $43^{\circ} 10'$; 15 fathoms; sand and gravel.
7741. August 12, 1905. (a) Prospect Hill-Indian Hill $112^{\circ} 23'$, Indian Hill-Nortons Point $22^{\circ} 27'$; (b) Prospect Hill-Indian Hill $108^{\circ} 37'$, Indian Hill-Nortons Point $21^{\circ} 02'$; (c) Prospect Hill-Indian Hill $102^{\circ} 41'$, Indian Hill-Nortons Point $21^{\circ} 30'$; 15 fathoms; sand and shells.
7742. August 17, 1905. (a) Nobska-Naushon Tripod $101^{\circ} 34'$, Naushon Tripod-Naushon SW $35^{\circ} 47'$; (b) Nobska-Naushon Tripod $99^{\circ} 37'$, Naushon Tripod-Naushon SW $35^{\circ} 53'$; 9 fathoms; rocky; 7-foot beam trawl, mud bag, oyster dredge.
7743. August 17, 1905. (a) Nobska-Naushon Tripod $99^{\circ} 40'$, Naushon Tripod-Naushon SW $37^{\circ} 44'$; (b) Nobska-Naushon Tripod $97^{\circ} 42'$, Naushon Tripod-Naushon SW $38^{\circ} 01'$; $10\frac{1}{2}$ fathoms; pebbles; 7-foot beam trawl, mud bag, oyster dredge.
7744. August 17, 1905. (a) Nobska-Tarpaulin Cove $90^{\circ} 58'$, Tarpaulin Cove-Nashawena $31^{\circ} 05'$; (b) Nobska-Tarpaulin Cove $89^{\circ} 37'$, Tarpaulin Cove-Nashawena $31^{\circ} 30'$; (c) Nobska-Tarpaulin Cove $87^{\circ} 39'$, Tarpaulin Cove-Nashawena $32^{\circ} 32'$; $12\frac{1}{2}$ fathoms; pebbles and shells; 7-foot beam trawl, mud bag, oyster dredge.
7745. August 17, 1905. (a) Nobska-Naushon Tripod $73^{\circ} 55'$, Naushon Tripod-Naushon SW $33^{\circ} 46'$; (b) Nobska-Naushon Tripod $73^{\circ} 58'$, Naushon Tripod-Naushon SW $31^{\circ} 30'$; (c) Nobska-Naushon Tripod $73^{\circ} 17'$, Naushon Tripod-Naushon SW $29^{\circ} 52'$; 12 to 8 fathoms; rocks and pebbles; 7-foot beam trawl, mud bag, oyster dredge.
7746. August 17, 1905. (a) Gay Head-Nortons Point $48^{\circ} 20'$, Nortons Point-West Chop $78^{\circ} 24'$; (b) Gay Head-Nortons Point $40^{\circ} 09'$, Nortons Point-West Chop $83^{\circ} 17'$; (c) Gay Head-Indian Hill $28^{\circ} 33'$, Indian Hill-West Chop $92^{\circ} 18'$; $15\frac{1}{2}$ to $13\frac{1}{2}$ fathoms; stones and gravel; 7-foot beam trawl, mud bag, oyster dredge.
7747. August 17, 1905. (a) Gay Head-Indian Hill $23^{\circ} 16'$, Indian Hill-West Chop $89^{\circ} 40'$; (b) Gay Head-Indian Hill $20^{\circ} 11'$, Indian Hill-West Chop $86^{\circ} 16'$; (c) Falmouth Observatory-Nobska $67^{\circ} 45'$, Nobska-Tarpaulin Cove $63^{\circ} 46'$; 14 fathoms; large stones; 7-foot beam trawl, mud bag, oyster dredge.

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7748. August 17, 1905. (a) Observatory-Nobska $82^{\circ} 37'$, Nobska-Tarpaulin Cove $43^{\circ} 55'$; (b) Falmouth Observatory-Nobska $79^{\circ} 46'$, Nobska-Tarpaulin Cove $38^{\circ} 42'$; (c) Falmouth Observatory-Nobska $75^{\circ} 24'$, Nobska-Tarpaulin Cove $37^{\circ} 08'$; 13 fathoms; pebbles and sand; 7-foot beam trawl, mud bag, oyster dredge.
7749. August 17, 1905. (a) Falmouth Observatory-Nobska $59^{\circ} 30'$, Nobska-Tarpaulin Cove $56^{\circ} 11'$; (b) Falmouth Observatory-Nobska $58^{\circ} 02'$, Nobska-Tarpaulin Cove $53^{\circ} 05'$; (c) Falmouth Observatory-Nobska $57^{\circ} 03'$, Nobska-Tarpaulin Cove $51^{\circ} 33'$; $10\frac{1}{2}$ fathoms; hard sand; 7-foot beam trawl, mud bag, oyster dredge.
7750. August 17, 1905. (a) Falmouth Observatory-Nobska $50^{\circ} 33'$, Nobska-Tarpaulin Cove $56^{\circ} 48'$; (b) Falmouth Observatory-Nobska $50^{\circ} 21'$, Nobska-Tarpaulin Cove $58^{\circ} 10'$; sandy; 9-foot beam trawl, mud bag, oyster dredge.
7751. August 17, 1905. (a) Falmouth Observatory-Nobska $42^{\circ} 31'$, Nobska-Tarpaulin Cove $69^{\circ} 45'$; (b) Falmouth Observatory-Nobska $41^{\circ} 10'$, Nobska-Tarpaulin Cove $69^{\circ} 28'$; (c) Falmouth Observatory-Nobska $40^{\circ} 48'$, Nobska-Tarpaulin Cove $69^{\circ} 10'$; $9\frac{1}{2}$ fathoms; sand; 9-foot beam trawl, mud bag, oyster dredge.
7752. August 17, 1905. (a) Falmouth Observatory-Nobska $32^{\circ} 42'$, Nobska-Tarpaulin Cove $87^{\circ} 32'$; (b) Falmouth Observatory-Nobska $31^{\circ} 57'$, Nobska-Tarpaulin Cove $86^{\circ} 11'$; (c) Falmouth Observatory-Nobska $31^{\circ} 07'$, Nobska-Tarpaulin Cove $85^{\circ} 43'$; 10 fathoms; sand and pebbles; 7-foot beam trawl, mud bag, oyster dredge.
7753. August 17, 1905. (a) Naushon SW-Indian Hill $66^{\circ} 35'$, Indian Hill-West Chop $75^{\circ} 22'$; (b) Naushon SW-Indian Hill $65^{\circ} 28'$, Indian Hill-West Chop $72^{\circ} 52'$; (c) Naushon SW-Indian Hill $64^{\circ} 34'$, Indian Hill-West Chop $71^{\circ} 22'$; $13\frac{1}{2}$ fathoms; pebbles; 7-foot beam trawl, mud bag, oyster dredge.
7754. August 17, 1905. (a) Indian Hill-West Chop $76^{\circ} 29'$, West Chop-Falmouth Observatory $63^{\circ} 53'$; (b) Indian Hill-West Chop $73^{\circ} 27'$, West Chop-Falmouth Observatory $62^{\circ} 43'$; (c) Indian Hill-West Chop $72^{\circ} 02'$, West Chop-Falmouth Observatory $62^{\circ} 22'$; $13\frac{1}{2}$ fathoms; pebbles and sand; 7-foot beam trawl, mud bag, oyster dredge.
7755. August 17, 1905. (a) Falmouth Observatory-Nobska $95^{\circ} 43'$, Nobska-Naushon SW $61^{\circ} 26'$; (b) Falmouth Observatory-Nobska $98^{\circ} 11'$, Nobska-Naushon SW $62^{\circ} 27'$; (c) Falmouth Observatory-Nobska $98^{\circ} 45'$, Nobska-Naushon SW $65^{\circ} 45'$; (d) Falmouth Observatory-Nobska $97^{\circ} 05'$, Nobska-Naushon SW $70^{\circ} 51'$; 10 fathoms; sand and gravel; 7-foot beam trawl, mud bag, oyster dredge.
7756. August 21, 1905. (a) Falmouth Observatory-Nobska $88^{\circ} 05'$, Nobska-Tarpaulin Cove $53^{\circ} 14'$; (b) Falmouth Observatory-Nobska $84^{\circ} 58'$, Nobska-Tarpaulin Cove $52^{\circ} 05'$; (c) Falmouth Observatory-Nobska $80^{\circ} 15'$, Nobska-Tarpaulin Cove $54^{\circ} 33'$; $11\frac{1}{2}$ fathoms; stones and pebbles; 9-foot beam trawl, mud bag.
7757. August 21, 1905. (a) Falmouth Observatory-Nobska $68^{\circ} 21'$, Nobska-Nortons Point $78^{\circ} 49'$; (b) Falmouth Observatory-Nobska $65^{\circ} 05'$, Nobska-Nortons Point $80^{\circ} 48'$; (c) Falmouth Observatory-Nobska $63^{\circ} 38'$, Nobska-Nortons Point $85^{\circ} 40'$; 13 fathoms; stones and shells; 9-foot beam trawl, mud bag.
7758. August 21, 1905. (a) Falmouth Observatory-Nobska $62^{\circ} 00'$, Nobska-Nortons Point $69^{\circ} 22'$; (b) Falmouth Observatory-Nobska $60^{\circ} 37'$, Nobska-Nortons Point $67^{\circ} 01'$; (c) Falmouth Observatory-Nobska $58^{\circ} 58'$, Nobska-Nortons Point $66^{\circ} 02'$; 13 fathoms; stones and shells; 9-foot beam trawl, mud bag.
7759. August 21, 1905. (a) Falmouth Observatory-Nobska $53^{\circ} 05'$, Nobska-Nortons Point $61^{\circ} 15'$; (b) Nobska-West Chop $65^{\circ} 36'$, West Chop-East Chop $95^{\circ} 40'$; (c) Nobska-West Chop $55^{\circ} 39'$, West Chop-East Chop $105^{\circ} 55'$; $11\frac{1}{2}$ fathoms; sand and stones; 9-foot beam trawl, mud bag.
7760. August 21, 1905. (a) Vineyard Haven Water Tower-West Chop $61^{\circ} 28'$, West Chop-East Chop $113^{\circ} 11'$; (b) Nobska-West Chop $30^{\circ} 28'$, West Chop-East Chop $110^{\circ} 37'$; (c) Nobska-West Chop $27^{\circ} 73'$, West Chop-East Chop $108^{\circ} 32'$; $8\frac{1}{2}$ fathoms; pebbles and shells; 9-foot beam trawl, mud bag.

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7761. August 21, 1905. (a) Nobska-Vineyard Haven Water Tower $72^{\circ} 56'$, Vineyard Haven Water Tower-East Chop $86^{\circ} 46'$; (b) Nobska-Vineyard Haven Water Tower $74^{\circ} 22'$, Vineyard Haven Water Tower-East Chop $99^{\circ} 42'$; (c) Nobska-Vineyard Haven Water Tower $76^{\circ} 52'$, Vineyard Haven Water Tower-East Chop $111^{\circ} 10'$; 7 fathoms; sand and shells; 9-foot beam trawl, mud bag.
7762. August 21, 1905. (a) West Chop-Vineyard Haven Water Tower $78^{\circ} 13'$, Vineyard Haven Water Tower-East Chop $134^{\circ} 50'$; (b) East Chop-West Chop $139^{\circ} 31'$, West Chop-Vineyard Haven Water Tower $82^{\circ} 23'$; (c) East Chop-West Chop $121^{\circ} 43'$, West Chop-Vineyard Haven Water Tower $93^{\circ} 83'$; (d) East Chop-West Chop $114^{\circ} 08'$, West Chop-Vineyard Haven Water Tower $100^{\circ} 04'$; 4 fathoms; mud and shells; 9-foot beam trawl, mud bag.
7763. August 21, 1905. (a) Nobska-West Chop $61^{\circ} 01'$, West Chop-East Chop $72^{\circ} 18'$; (b) Nobska-West Chop $60^{\circ} 24'$, West Chop-East Chop $78^{\circ} 03'$; (c) Nobska-West Chop $59^{\circ} 36'$, West Chop-East Chop $82^{\circ} 14'$; 13 fathoms; shells and pebbles; 9-foot beam trawl, mud bag.
7764. August 21, 1905. (a) Nobska-West Chop $72^{\circ} 31'$, West Chop-East Chop $45^{\circ} 55'$; (b) Nobska-West Chop $72^{\circ} 38'$, West Chop-East Chop $48^{\circ} 46'$; (c) Nobska-West Chop $74^{\circ} 19'$, West Chop-East Chop $51^{\circ} 10'$; 6 fathoms; sand; 9-foot beam trawl, mud bag.
7765. August 21, 1905. (a) Nobska-West Chop $81^{\circ} 10'$, West Chop-East Chop $55^{\circ} 59'$; (b) Nobska-West Chop $80^{\circ} 52'$, West Chop-East Chop $59^{\circ} 50'$; (c) Nobska-West Chop $80^{\circ} 41'$, West Chop-East Chop $63^{\circ} 48'$; $13\frac{1}{2}$ fathoms; rocky; 9-foot beam trawl, mud bag.
7766. August 21, 1905. (a) Nobska-West Chop $74^{\circ} 03'$, West Chop-East Chop $31^{\circ} 41'$; (b) Nobska-West Chop $75^{\circ} 37'$, West Chop-East Chop $32^{\circ} 29'$; (c) Nobska-West Chop $78^{\circ} 12'$, West Chop-East Chop $33^{\circ} 03'$; 5 fathoms; pebbles and sand; 9-foot beam trawl, mud bag.
7767. August 25, 1905. (a) Nobska-West Chop $76^{\circ} 21'$, West Chop-East Chop $36^{\circ} 35'$; (b) Nobska-West Chop $76^{\circ} 31'$, West Chop-East Chop $39^{\circ} 23'$; (c) Nobska-West Chop $76^{\circ} 57'$, West Chop-East Chop $41^{\circ} 58'$; 10 to 4 fathoms; sand and pebbles; 9-foot beam trawl and mud bag.
7768. August 23, 1905. (a) Nobska-West Chop $96^{\circ} 45'$, West Chop-East Chop $35^{\circ} 47'$; (b) Nobska-West Chop $100^{\circ} 32'$, West Chop-East Chop $36^{\circ} 40'$; (c) Nobska-West Chop $103^{\circ} 20'$, West Chop-East Chop $37^{\circ} 13'$; 10 fathoms; stones; 9-foot beam trawl, mud bag.
7769. August 23, 1905. (a) Nobska-West Chop $93^{\circ} 20'$, West Chop-East Chop $28^{\circ} 25'$; (b) Nobska-West Chop $95^{\circ} 21'$, West Chop-East Chop $28^{\circ} 38'$; (c) Nobska-West Chop $97^{\circ} 19'$, West Chop-East Chop $28^{\circ} 27'$; 7 fathoms; pebbles; 9-foot beam trawl, mud bag.
7770. August 23, 1905. (a) Nobska-West Chop $108^{\circ} 34'$, West Chop-East Chop $27^{\circ} 53'$; (b) Nobska-West Chop $112^{\circ} 47'$, West Chop-East Chop $28^{\circ} 58'$; (c) Nobska-West Chop $109^{\circ} 45'$, West Chop-East Chop $29^{\circ} 52'$; 10 to 12 fathoms; sand and pebbles; 9-foot beam trawl and mud bag.
7771. August 23, 1905. (a) Nobska-West Chop $102^{\circ} 48'$, West Chop-East Chop $20^{\circ} 14'$; (b) Nobska-West Chop $104^{\circ} 40'$, West Chop-East Chop $20^{\circ} 12'$; 7 fathoms; sand and rocks; 9-foot beam trawl and mud bag.
7772. August 23, 1905. (a) Nobska-West Chop $115^{\circ} 34'$, West Chop-East Chop $19^{\circ} 19'$; (b) Falmouth Water Tower-Nobska $59^{\circ} 07'$, Nobska-West Chop $118^{\circ} 57'$; (c) East Chop-Falmouth Observatory $115^{\circ} 48'$, Falmouth Observatory-Nobska $101^{\circ} 04'$; 6 to 8 fathoms; sand and pebbles; 9-foot beam trawl, mud bag.
7773. August 23, 1905. (a) East Chop-Falmouth Observatory $109^{\circ} 41'$, Falmouth Observatory-Nobska $92^{\circ} 52'$; (b) East Chop-Falmouth Observatory $106^{\circ} 42'$, Falmouth Observatory-Nobska $89^{\circ} 15'$; (c) East Chop-Falmouth Observatory $104^{\circ} 46'$, Falmouth Observatory-Nobska $87^{\circ} 30'$; $11\frac{1}{2}$ fathoms; pebbles and stones; 9-foot beam trawl, mud bag.
7774. August 23, 1905. (a) Falmouth Water Tower-Nobska $80^{\circ} 58'$, Nobska-West Chop $113^{\circ} 21'$; (b) Falmouth Water Tower-Nobska $77^{\circ} 05'$, Nobska-West Chop $122^{\circ} 19'$; (c) Falmouth Water Tower-Nobska $73^{\circ} 45'$, Nobska-West Chop $130^{\circ} 01'$; $7\frac{1}{2}$ fathoms; pebbles; 9-foot beam trawl, mud bag.
7775. August 23, 1905. (a) Falmouth Observatory-Nobska $108^{\circ} 00'$, Nobska-Nortons Point $87^{\circ} 33'$; (b) Falmouth Observatory-Nobska $102^{\circ} 15'$, Nobska-Nortons Point $93^{\circ} 00'$; (c) Falmouth Observatory-Nobska $96^{\circ} 18'$, Nobska-Nortons Point $98^{\circ} 44'$; 9 fathoms; pebbles and stones; 9-foot beam trawl, mud bag.

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7776. August 23, 1905. (a) Falmouth Water Tower-Nobska $121^{\circ} 21'$, Nobska-Nortons Point $43^{\circ} 15'$; (b) Falmouth Water Tower-Nobska $116^{\circ} 56'$, Nobska-Nortons Point $50^{\circ} 36'$; (c) Falmouth Water Tower-Nobska $111^{\circ} 54'$, Nobska-Nortons Point $58^{\circ} 40'$; (d) Falmouth Water Tower-Nobska $104^{\circ} 14'$, Nobska-Nortons Point $70^{\circ} 45'$; 5 to 7 fathoms; stones and shells; 9-foot beam trawl, mud bag.
7777. August 26, 1905. (a) Falmouth Water Tower-Nobska $49^{\circ} 03'$, Nobska-East Chop $92^{\circ} 19'$; (b) Falmouth Water Tower-Nobska $50^{\circ} 32'$, Nobska-East Chop $90^{\circ} 11'$; (c) Falmouth Water Tower-Nobska $53^{\circ} 47'$, Nobska-East Chop $90^{\circ} 02'$; $5\frac{1}{2}$ fathoms; sand and pebbles; 9-foot beam trawl and mud bag.
7778. August 26, 1905. (a) Falmouth water tower-Nobska $59^{\circ} 42'$, Nobska-East Chop $88^{\circ} 47'$; (b) Falmouth water tower-Nobska $63^{\circ} 32'$, Nobska-East Chop $86^{\circ} 55'$; (c) Falmouth water tower-Nobska $66^{\circ} 03'$, Nobska-East Chop $85^{\circ} 10'$; 4 fathoms; sand and pebbles; 9-foot beam trawl and mud bag.
7779. August 26, 1905. (a) Falmouth water tower-Nobska $46^{\circ} 29'$, Nobska-East Chop $104^{\circ} 21'$; (b) Falmouth water tower-Nobska $50^{\circ} 48'$, Nobska-East Chop $105^{\circ} 07'$; (c) Falmouth water tower-Nobska $54^{\circ} 52'$, Nobska-East Chop $104^{\circ} 08'$; $12\frac{1}{2}$ fathoms; sand; 9-foot beam trawl and mud bag.
7780. August 26, 1905. (a) Falmouth water tower-Nobska $64^{\circ} 02'$, Nobska-East Chop $101^{\circ} 21'$; (b) Falmouth water tower-Nobska $72^{\circ} 52'$, Nobska-East Chop $98^{\circ} 08'$; (c) Falmouth water tower-Nobska $80^{\circ} 51'$, Nobska-East Chop $95^{\circ} 18'$; $7\frac{1}{2}$ fathoms; sand and pebbles; 9-foot beam trawl and mud bag.
7781. August 26, 1905. (a) Falmouth water tower-Nobska $95^{\circ} 20'$, Nobska-East Chop $91^{\circ} 00'$; (b) Falmouth water tower-Nobska $108^{\circ} 03'$, Nobska-East Chop $86^{\circ} 46'$; (c) Falmouth water tower-Nobska $121^{\circ} 43'$, Nobska-East Chop $82^{\circ} 13'$; 5 fathoms; coarse sand and pebbles; 9-foot beam trawl and mud bag.
7782. August 26, 1905. (a) Falmouth water tower-Nobska $60^{\circ} 57'$, Nobska-East Chop $112^{\circ} 47'$; (b) Falmouth water tower-Nobska $66^{\circ} 59'$, Nobska-East Chop $113^{\circ} 11'$; (c) Falmouth water tower-Nobska $75^{\circ} 59'$, Nobska-East Chop $111^{\circ} 51'$; 10 fathoms; sand and pebbles; 9-foot beam trawl, mud bag.
7783. August 26, 1905. (a) Falmouth water tower-Nobska $95^{\circ} 53'$, Nobska-East Chop $106^{\circ} 36'$; (b) Falmouth water tower-Nobska $105^{\circ} 35'$, Nobska-East Chop $103^{\circ} 23'$; (c) Falmouth water tower-Nobska $121^{\circ} 58'$, Nobska-East Chop $96^{\circ} 42'$; (d) Falmouth water tower-Nobska $136^{\circ} 41'$, Nobska-East Chop $88^{\circ} 47'$; (e) West Chop-Falmouth observatory $83^{\circ} 28'$, Falmouth observatory-Falmouth water tower $58^{\circ} 12'$; 5 fathoms; sand, pebbles, and shells; 9-foot beam trawl, mud bag.

The following Fish Hawk stations of 1903 were repeated with approximate accuracy by the Fish Hawk and Phalarope during the summer of 1904:

Station no.

- 7521bis. July 14, 1904. Nobska NE by E, $\frac{1}{2}$ mile; $7\frac{1}{2}$ fathoms; coarse stones and sand; 24-inch scrape dredge; drift SW $\frac{1}{4}$ mile.
- 7522bis. July 14, 1904. Nobska N $\frac{1}{2}$ W, 1 mile; $14\frac{3}{4}$ fathoms; sand and gravel; 7-foot beam trawl; drift SW $\frac{1}{4}$ mile.
- 7523bis. July 14, 1904. Nobska NNW, $1\frac{5}{8}$ miles; 12 fathoms; stones and coarse gravel; 7-foot beam trawl, 24-inch dredge; drift SW $\frac{1}{4}$ mile.
- 7524bis. July 14, 1904. Nobska NW by N $\frac{1}{2}$ N, $2\frac{1}{4}$ miles; 10 fathoms; small stones; 7-foot beam trawl, 24-inch dredge; drift SW $\frac{1}{4}$ mile.
- 7525bis. July 14, 1904. Nobska NNW $\frac{1}{4}$ W, $2\frac{5}{8}$ miles; 10 fathoms; sandy; 7-foot beam trawl, 24-inch scrape dredge, oyster dredge; drift SW $\frac{1}{4}$ mile.
- 7530bis. September 3, 1904. 12 fathoms; stones and shell fragments; scrape dredge.
- 7531bis. September 2, 1904. $8\frac{1}{2}$ fathoms; gravel and small stones; scrape dredge.
- 7532bis. July 18, 1904. West Chop ESE, Tarpaulin Cove W by S $\frac{1}{2}$ S; 9 fathoms; mud and gravel; rake dredge; drift SSW $\frac{1}{2}$ mile.
- 7533bis. July 18, 1904. Tarpaulin Cove W by S, West Chop E by S $\frac{1}{2}$ S; 15 fathoms; sand and gravel; rake dredge; drift S $\frac{1}{2}$ mile.

Station no.

- 7534bis. July 18, 1904. Tarpaulin Cove W $\frac{1}{2}$ S, West Chop E by S; Nobska NE; 12 fathoms; coarse gravel; trawl; drift SW $\frac{1}{4}$ mile.
- 7535bis. July 18, 1904. Nobska NNE, Tarpaulin Cove W by N $\frac{3}{4}$ N; 12 fathoms; stones and coarse gravel; beam trawl; drift SW $\frac{1}{4}$ mile.
- 7536bis. July 18, 1904. Nobska N by E $\frac{1}{2}$ E, Tarpaulin Cove W by N $\frac{1}{2}$ N; 11 $\frac{1}{2}$ fathoms; coarse sand and shells; beam trawl, 22-inch scrape dredge; drift SW $\frac{1}{2}$ mile.
- 7537bis. July 18, 1904. Tarpaulin Cove W by S $\frac{1}{2}$ S, West Chop E by S $\frac{1}{4}$ S; 4 $\frac{1}{2}$ fathoms; gravel and mud; rake dredge; drift SW by S $\frac{1}{2}$ mile.
- 7538bis. September 6, 1904. 11 fathoms; scrape dredge.
- 7539bis. September 3, 1904. 12 $\frac{1}{2}$ to 12 fathoms; gravel and stones; scrape dredge. (Very scanty haul.)
- 7541bis. September 7, 1904. 11 $\frac{1}{2}$ fathoms; gravel and stones; scrape dredge.
- 7542bis. September 7, 1904. 7 $\frac{1}{2}$ fathoms; sandy; scrape dredge.
- 7543bis. July 20, 1904. Gay Head SW $\frac{1}{2}$ S, Nobska E by N $\frac{1}{2}$ N; 13 fathoms; sandy (?); 7-foot beam trawl; drift NE $\frac{1}{8}$ mile.
- 7544bis. July 20, 1904. Tarpaulin Cove W $\frac{3}{4}$ N, Nobska NE by E $\frac{1}{2}$ E; 13 fathoms; rake dredge; drift NE $\frac{1}{4}$ mile.
- 7545bis. July 20, 1904. Nobska NE $\frac{1}{2}$ E, Tarpaulin Cove NW by W $\frac{3}{4}$ W; 12 $\frac{1}{2}$ fathoms; sand and gravel; 24-inch scrape dredge; drift NE $\frac{1}{4}$ mile.
- 7546bis. July 20, 1904. Nobska NE $\frac{1}{2}$ E, Tarpaulin Cove NW by W $\frac{1}{2}$ W; 10 fathoms; shell fragments; oyster dredge; drift NE $\frac{1}{4}$ mile.
- 7547bis. July 20, 1904. Nobska NE $\frac{3}{4}$ N, Tarpaulin Cove NW $\frac{3}{4}$ W; 13 fathoms; sand, coarse gravel, and shell fragments; 7-foot beam trawl, oyster dredge, scrape dredge; drift NE $\frac{1}{2}$ E $\frac{1}{4}$ mile.
- 7549bis. September 6, 1904. 12 fathoms; small stones; scrape dredge.
- 7550bis. September 6, 1904. 17 fathoms; stony; scrape dredge.
- 7551bis. September 6, 1904. 11 fathoms; small stones and mussel shells; scrape dredge.
- 7552bis. September 7, 1904. 12 fathoms; sand; scrape dredge.
- 7553bis. September 7, 1904. 8 fathoms; scrape dredge.
- 7554bis. September 7, 1904. 12 fathoms; mud (?) and sand; scrape dredge.
- 7556bis. September 7, 1904. 5 $\frac{1}{2}$ fathoms; coarse sand; scrape dredge.
- 7562bis. September 10, 1904. 4 $\frac{1}{2}$ fathoms; sand; scrape dredge.
- 7563bis. September 10, 1904. 7 fathoms; coarse sand; scrape dredge.
- 7564bis. September 10, 1904. 12 fathoms; muddy sand and gravel; scrape dredge.
- 7565bis. September 10, 1904. 15 fathoms; sandy; scrape dredge.
- 7569bis. September 10, 1904. 5 $\frac{1}{2}$ fathoms; fine sand; scrape dredge.

PHALAROPE STATIONS.^a

1. July 6, 1904. Vineyard Sound south shore of Nonamesset Island; 4 $\frac{1}{2}$ fathoms; gravel; 22-inch dredge.
2. July 6, 1904. Vineyard Sound, south shore of Nonamesset Island; 6 $\frac{1}{2}$ fathoms; sand and gravel; 22-inch dredge.
3. July 6, 1904. Vineyard Sound, south shore of Nonamesset Island; 5 $\frac{1}{4}$ fathoms; sandy; 22-inch dredge.
4. July 6, 1904. Vineyard Sound, south shore of Nonamesset Island; 2 to 5 fathoms; sandy; 22-inch dredge. (Scanty haul.)
5. July 8, 1904. Vineyard Sound, south shore of Naushon Island; 8 to 10 fathoms, stony; 22-inch dredge.
6. July 8, 1904. Vineyard Sound, south shore of Naushon Island; 10 to 9 fathoms; stony and gravelly; 22-inch dredge.
7. July 8, 1904. Vineyard Sound, south shore of Naushon Island; 6 $\frac{1}{2}$ fathoms; stones and gravel; 22-inch dredge.
8. July 13, 1904. 5 to 4 $\frac{1}{2}$ fathoms; soft mud, hard mud; 22-inch dredge.
9. July 13, 1904. 5 $\frac{1}{2}$ to 8 fathoms; hard sand; 22-inch dredge.

^a Including also Blue Wing stations, as indicated.

10. July 13, 1904. 10 to 14 fathoms; hard sand, sand and gravel; 22-inch dredge.
11. July 13, 1904. 10 to 9 fathoms; hard sand, sand and rock; 22-inch dredge.
12. July 13, 1904. 13 fathoms; hard sand; 22-inch dredge.
13. July 15, 1904. Vineyard Sound, shore of Naushon; 12 to 12½ fathoms; gravel, gravel and sand; 22-inch dredge.
14. July 15, 1904. Vineyard Sound, shore of Naushon; 5 to 6 fathoms; stones and sand, stone; 22-inch dredge.
15. July 15, 1904. Vineyard Sound, shore of Naushon; 7½ to 7½ fathoms; stones; 22-inch dredge.
16. July 15, 1904. Vineyard Sound, shore of Naushon; 4 to 5 fathoms; stones and sand; 22-inch dredge.
17. July 19, 1904. Tarpaulin Cove; 2¼ to 4 fathoms; sand and gravel; oyster dredge.
18. July 19, 1904. Tarpaulin Cove; 2½ to 2¾ fathoms; soft mud and eelgrass; oyster dredge and 22-inch dredge.
19. July 19, 1904. Tarpaulin Cove; 4 to 3 fathoms; mud, sand; 22-inch dredge.
- 20 (Blue Wing). July 23, 1904. Robinsons Hole; 2½ to 2 fathoms; stony with many algæ.
- 21 (Blue Wing). July 23, 1904. Robinsons Hole; 3 to 1½ fathoms; rocky with many algæ.
- 22 (Blue Wing). July 23, 1904. Robinsons Hole; 3¼ fathoms; gravel.
- 23 (Blue Wing). July 23, 1904. Robinsons Hole; 2½ fathoms; sandy.
24. July 26, 1904. South side of Pasque Island; 5 to 5½ fathoms; hard sand.
25. July 26, 1904. South side of Pasque Island; 5 to 5 fathoms; hard, rocky.
26. July 26, 1904. South side of Pasque Island; 6 to 6½ fathoms; partly soft mud.
27. July 28, 1904. Quicks Hole; 4 to 5 fathoms; stony.
28. July 28, 1904. Quicks Hole; 5 fathoms; muddy sand.
29. July 28, 1904. Quicks Hole; 3 fathoms; sand.
30. July 28, 1904. South side of Nashawena; 4 to 5 fathoms; stony, sandy.
31. July 28, 1904. South side of Nashawena; 4 to 4½ fathoms; hard, clean sand.
32. July 30, 1904. South shore of Cuttyhunk Island; 5 to 5½ fathoms; stony.
33. July 30, 1904. South shore of Cuttyhunk Island; 5 to 5¼ fathoms; gravel and hard mud.
34. July 30, 1904. South shore of Cuttyhunk Island; 5½ to 6 fathoms; sandy.
35. August 3, 1904. Off Sow and Pigs Reef; 10 to 9 fathoms; stones.
36. August 3, 1904. Off Sow and Pigs Reef; 6½ to 9 fathoms; stony.
37. August 3, 1904. Off Sow and Pigs Reef; 4½ to 5 fathoms; stones, sand.
38. August 3, 1904. Off Sow and Pigs Reef; 4½ fathoms; stony.
39. August 4, 1904. Middle Ground; 7 to 3¾ fathoms; clean sand.
40. August 4, 1904. Middle Ground; 6 to 5 fathoms; sand and broken shells.
41. August 4, 1904. Middle Ground; 2 to 4½ fathoms; sand and broken shells.
42. August 4, 1904. Middle Ground; 3¼ to 6 fathoms; sand and broken shells.
43. August 4, 1904. Middle Ground; 2½ to 5 fathoms; sand and broken shells.
- 44 (Blue Wing). August 9, 1904. Near Gay Head; 3¼ to 5 fathoms; stony, hard sand; 22-inch scrape dredge.
- 45 (Blue Wing). August 9, 1904. Near Gay Head; 5 fathoms; stony; 22-inch scrape dredge.
- 46 (Blue Wing). August 9, 1904. Near Gay Head; 10 feet to 3½ fathoms; hard sand; 22-inch scrape dredge and tangle.
- 47 (Blue Wing). August 9, 1904. Near Gay Head; 8 to 12 feet; rock, sand; 22-inch scrape dredge and tangle.
- 48 (Blue Wing). August 9, 1904. Near Gay Head; sand; 22-inch scrape dredge.
- 49 (Blue Wing). August 9, 1904. Near Gay Head; sand; 22-inch scrape dredge.
- 50 (Blue Wing). August 9, 1904. Near Gay Head; sand; 22-inch scrape dredge.
51. August 9, 1904. This includes several hauls, about alike in character, done with 16-inch scrape dredge, operated from a skiff close to shore; 1 to 1½ fathoms; sand. Collections were also made from stones and from piles, between tides.
52. August 11, 1904. 7 to 6½ fathoms; shelly and gravelly.
53. August 11, 1904. 5½ to 5½ fathoms; shelly and sandy.
54. August 11, 1904. 5½ to 7 fathoms, hard, clean sand.

55. August 11, 1904. $7\frac{1}{2}$ to $8\frac{1}{2}$ fathoms; clean sand.
56. August 15, 1904. Near Gay Head; 7 to $7\frac{1}{2}$ fathoms; gravel and sand.
57. August 15, 1904. Near Gay Head; 5 to 9 fathoms; sand and gravel.
58. August 15, 1904. Near Gay Head; $6\frac{1}{2}$ to $9\frac{1}{2}$ fathoms; sand and gravel.
59. August 15, 1904. Near Gay Head; 11 to 12 fathoms; shell bottom.
60. August 15, 1904. Near Gay Head; $8\frac{1}{2}$ to 6 fathoms; sand and shells.
61. August 19, 1904. $5\frac{1}{4}$ to 5 fathoms; clean sand.
62. August 19, 1904. 7 to 7 fathoms; sandy and pebbly.
63. August 19, 1904. 7 to $6\frac{1}{2}$ fathoms; sandy and pebbly.
64. August 24, 1904. $6\frac{1}{2}$ to 6 fathoms; hard sand.
65. August 24, 1904. 6 to $3\frac{1}{2}$ fathoms; gravel.
66. August 24, 1904. 6 to $7\frac{1}{2}$ fathoms; sandy.
67. August 24, 1904. $4\frac{1}{2}$ to $3\frac{1}{2}$ fathoms; sandy.
68. August 24, 1904. $6\frac{1}{2}$ to 8 fathoms; sandy and shelly.
69. August 26, 1904. Vineyard Haven; $3\frac{1}{2}$ to $11\frac{1}{2}$ fathoms; rock and stones; 22-inch scrape dredge.
70. August 26, 1904. Vineyard Haven; 4 to 4 fathoms; shelly mud; 22-inch scrape dredge.
71. August 26, 1904. Vineyard Haven; $3\frac{1}{2}$ to $3\frac{1}{2}$ fathoms; shells and mud; oyster dredge.
72. August 26, 1904. Vineyard Haven; 3 to 4 fathoms; shells and mud; oyster dredge.
73. August 30, 1904. 5 to $2\frac{1}{2}$ fathoms; mud; scrape dredge.
74. August 30, 1904. $5\frac{1}{2}$ to 6 fathoms; sandy; scrape dredge.
75. August 30, 1904. $5\frac{1}{4}$ to $5\frac{1}{4}$ fathoms; sandy and eelgrass; scrape dredge.
76. August 30, 1904. 7 to $8\frac{1}{2}$ fathoms; sandy; scrape dredge.
77. August 30, 1904. $4\frac{1}{2}$ to 7 fathoms; gravelly; scrape dredge.
78. July 6, 1905. North shore of Nashawena, at western end; 6 to 5 fathoms; sand and mud.
79. July 6, 1905. North shore of Nashawena; $5\frac{1}{2}$ to $5\frac{1}{2}$ fathoms; mud.
80. July 6, 1905. North shore of Nashawena; 6 to 5 fathoms; sandy.
81. July 6, 1905. Buzzards Bay, near Quicks Hole; 7 to 7 fathoms; sandy.
82. July 6, 1905. Shore of Pasque Island near Quicks Hole; 8 to $8\frac{1}{2}$ fathoms; sandy.
83. July 12, 1905. North shore of Pasque Island; 5 to 7 fathoms, sand.
84. July 12, 1905. North shore of Pasque Island; $6\frac{1}{2}$ to $7\frac{1}{2}$ fathoms; shells and mud.
85. July 12, 1905. Robinsons Hole; 5 to 6 fathoms; sand and shells.
86. July 12, 1905. West end of Naushon; 5 to 6 fathoms; sand,
87. July 15, 1905. Northwest shore of Naushon; $3\frac{3}{4}$ to 3 fathoms; algæ, stony.
88. July 15, 1905. Northwest shore of Naushon; $3\frac{1}{2}$ fathoms; clean sand.
89. July 15, 1905. Northwest shore of Naushon; $3\frac{1}{2}$ to 5 fathoms; muddy sand.
90. July 15, 1905. Northwest shore of Naushon; $4\frac{1}{2}$ to $4\frac{3}{4}$ fathoms; clean sand.
91. July 15, 1905. Northwest shore of Naushon; $3\frac{3}{4}$ to 3 fathoms; clean gravel.
92. July 15, 1905. Northwest shore of Naushon; $4\frac{3}{4}$ to 5 fathoms; sand.
93. July 15, 1905. Northwest shore of Naushon; 7 to 8 fathoms; sandy mud.
94. July 18, 1905. Northwest shore of Naushon Island; 2 to $6\frac{1}{2}$ fathoms; sandy mud.
95. July 18, 1905. Northwest shore of Naushon Island; 4 fathoms; mud and sand.
96. July 18, 1905. Northwestern extremity of Naushon Island; 4 to $3\frac{1}{2}$ fathoms; clean, coarse sand.
97. July 18, 1905. $4\frac{1}{4}$ to $3\frac{3}{4}$ fathoms; coarse muddy gravel.
98. July 18, 1905. West end of Uncatena Island; 4 to $3\frac{3}{4}$ fathoms; muddy sand.
99. July 20, 1905. Near western end of Cuttyhunk Island; 3 to $3\frac{1}{2}$ fathoms; sand.
100. July 20, 1905. Northwest shore of Cuttyhunk Island; 1 to 5 fathoms; sandy mud.
101. July 20, 1905. Northwest shore of Cuttyhunk Island; 4 to $4\frac{1}{2}$ fathoms; clean sand.
102. July 20, 1905. Northwest shore of Cuttyhunk Island; 5 to 5 fathoms; loose sand.
103. July 20, 1905. North shore of Cuttyhunk Island; 4 to $5\frac{1}{2}$ fathoms; clean sand.
104. July 20, 1905. Cuttyhunk Harbor; $2\frac{3}{4}$ to 3 fathoms; sand.
105. July 22, 1905. Near Weepecket Islands; 6 to $6\frac{1}{2}$ fathoms; clean sand.
106. July 22, 1905. Near Weepecket Islands; 6 to 6 fathoms, clean sand.
107. July 22, 1905. Near Weepecket Islands; $5\frac{1}{4}$ to $5\frac{1}{2}$ fathoms; mud and shells.
108. July 22, 1905. Near Weepecket Islands; $4\frac{1}{2}$ to 5 fathoms; sand and gravel.

109. July 22, 1905. Near Weepecket Islands; $6\frac{3}{4}$ to $7\frac{1}{4}$ fathoms; clean sand.
110. July 22, 1905. Near Weepecket Islands; $5\frac{1}{4}$ to $7\frac{1}{2}$ fathoms; muddy gravel.
111. July 25, 1905. Sow and Pigs Reef; $2\frac{1}{2}$ to 7 fathoms; stones and pebbles; scrape dredge.
112. July 25, 1905. Western end of Cuttyhunk Island; 5 to 6 fathoms; stones; scrape dredge.
113. July 25, 1905. Near Penikese Island; 7 to 8 fathoms; sand and gravel; scrape dredge.
114. July 25, 1905. Near Penikese Island; 7 to $7\frac{1}{2}$ fathoms; sand; scrape dredge.
115. July 25, 1905. Near Penikese Island; 5 to 7 fathoms; sand and gravel; scrape dredge.
116. July 25, 1905. Near Penikese Island; $3\frac{1}{2}$ to 4 fathoms; pebbles and sand; scrape dredge.
117. July 27, 1905. North shore of Uncatena Island; 3 to $4\frac{1}{2}$ fathoms; pebbles and stones.
118. July 27, 1905. East of Uncatena Island; 7 to 5 fathoms; sand and shells.
119. July 27, 1905. Hadley Harbor; 3 to 4 fathoms; mud and sand.
120. July 27, 1905. Entrance to Hadley Harbor; 5 to $4\frac{1}{2}$ fathoms; sand and mud.
121. July 27, 1905. Woods Hole passage; 4 to $4\frac{3}{4}$ fathoms; sand and stones.
122. July 29, 1905. Near tip of Penzance Point; 4 to 5 fathoms, sand and gravel.
123. July 29, 1905. Near Penzance Point; 3 to 4 fathoms; sand and gravel.
124. July 29, 1905. North of Penzance Point; 4 to $4\frac{3}{4}$ fathoms; fine sand and stones.
125. July 29, 1905. Bay shore, near bathing beach; 3 to $4\frac{3}{4}$ fathoms; clean sand.
126. July 29, 1905. Near entrance to Quisset Harbor; 4 to $4\frac{3}{4}$ fathoms; shells and mud.
127. August 3, 1905. Quisset Harbor; 3 to $1\frac{3}{4}$ fathoms; black mud.
128. August 3, 1905. Near entrance of Quisset Harbor; 4 to 5 fathoms; rocks and gravel.
129. August 3, 1905. North of Quisset Harbor; 3 to $4\frac{1}{2}$ fathoms; clean sand.
130. August 3, 1905. Near Gunning Point; $3\frac{3}{4}$ to 5 fathoms; sand and gravel.
131. August 3, 1905. Near Hamlin Point; $2\frac{1}{2}$ to $3\frac{1}{4}$ fathoms; stones and sand.
132. August 5, 1905. East shore, Buzzards Bay; $4\frac{1}{2}$ to 5 fathoms; sand and gravel.
133. August 5, 1905. South of Hog Island Harbor; $5\frac{1}{4}$ to 6 fathoms; sand and gravel.
134. August 5, 1905. Near entrance of Hog Island Harbor; $3\frac{3}{4}$ to $4\frac{3}{4}$ fathoms; stones and many algæ.
135. August 5, 1905. Entrance of Hog Island Harbor; $3\frac{3}{4}$ to 5 fathoms; sand and pebbles.
136. August 5, 1905. North of Hog Island Harbor; $3\frac{3}{4}$ to $4\frac{1}{4}$ fathoms; sand.
137. August 5, 1905. Between Hog Island Harbor and Wild Harbor; 4 to $4\frac{3}{4}$ fathoms; stones and sand.
138. August 7, 1905. South of Wild Harbor; $5\frac{1}{4}$ to $6\frac{1}{2}$ fathoms; clean fine sand.
139. August 7, 1905. Wild Harbor; 7 to $5\frac{1}{2}$ fathoms; clean sand.
140. August 7, 1905. Nyes Neck; 5 to $7\frac{1}{2}$ fathoms; sand and shells.
141. August 7, 1905. Cataumet Harbor; 3 to 4 fathoms; sand and gravel.
142. August 7, 1905. Cataumet Harbor; 3 to $5\frac{3}{4}$ fathoms; pebbles and stones.
143. August 7, 1905. Cataumet Harbor; 4 to $6\frac{1}{2}$ fathoms; mud.
144. August 9, 1905. Off Scraggy Neck; $4\frac{3}{4}$ to $4\frac{3}{4}$ fathoms; sand and shells.
145. August 9, 1905. Shore of Scraggy Neck; $4\frac{1}{4}$ to $3\frac{1}{2}$ fathoms; sand and shells.
146. August 9, 1905. Between Scraggy Neck and Wenaumet Neck; 3 to 4 fathoms; fine sand.
147. August 9, 1905. Near Wings Neck Light; $3\frac{1}{4}$ to $3\frac{1}{4}$ fathoms; fine gravel.
148. August 9, 1905. Off Wings Neck Light; 4 to 4 fathoms; sand and shells.
149. August 9, 1905. North shore of Wenaumet Neck; 5 to $3\frac{1}{4}$ fathoms; sand and shells.
150. August 11, 1905. North shore of Wenaumet Neck; $4\frac{3}{4}$ to 2 fathoms; fine sand.
151. August 11, 1905. North shore of Wenaumet Neck; $2\frac{3}{4}$ to $1\frac{1}{4}$ fathoms; muddy sand.
152. August 11, 1905. Near head of Buzzards Bay; 2 to $2\frac{3}{4}$ fathoms; fine sandy mud.
153. August 11, 1905. Off Monument Beach; 2 to $2\frac{3}{4}$ fathoms; fine muddy sand.
154. September 6, 1905. Mouth of Weweantic River; 12 feet; soft black mud.
155. September 6, 1905. Wareham River; 14 feet; soft black mud.
156. September 6, 1905. Wareham River; 15 feet; soft black mud.
157. September 6, 1905. Wareham River; 15 feet; soft black mud.
158. September 6, 1905. Wareham River; 15 feet; shells.
159. August 27, 1907. Off Sippican Neck; $3\frac{1}{2}$ fathoms; black sticky mud, few shells; 22-inch dredge; 15 minutes.
160. August 27, 1907. Aucoot Cove; 4 fathoms; fine sandy mud; 22-inch dredge; 15 minutes.

161. August 27, 1907. Mattapoissett Harbor; 3 fathoms; black mud; 22-inch dredge; repeated with "scallop dredge." (Scanty haul.)
162. August 27, 1907. West shore of West Island; 5 to $5\frac{1}{2}$ fathoms; mud, slightly sandy, and a little fine gravel; 22-inch dredge; 15 minutes.
163. August 27, 1907. End of Sconticut Neck; 4 to $3\frac{1}{2}$ fathoms; sandy mud and stones; 22-inch dredge and "scallop dredge."
164. August 27, 1907. Below New Bedford Harbor; 3 to $2\frac{3}{4}$ fathoms; black mud with a little sand, few stones, and shell fragments; 22-inch dredge; 20 minutes.
165. August 27, 1907. Entrance of Clark Cove; 3 fathoms; mud, shell fragments, and stones; 22-inch dredge.
166. August 27, 1907. Round Hill Point; 3 fathoms; black mud and shells; 22-inch dredge.
167. August 27, 1907. Mishaum Point; $3\frac{1}{2}$ fathoms; shells and gravel; 22-inch dredge.