

Orange County Grunion Greeter Data Collection Sheet

Night of: _____ (Mo/Day/Yr) **Note:** If run begins after midnight, use the previous day's date.

Location:

Orange County

- Seal Beach
- Huntington Beach
- Newport Beach (NB1): From the Santa Ana River Mouth to Newport Pier
- Newport Beach (NB2): From Newport Pier to the jetty
- Laguna Beach: Crescent Bay Beach
- Dana Point: Doheny State Beach

(Other—please be as specific as possible. Leave blank if you monitored one of the sites above).

City: _____ Name of beach: _____

Area on beach: _____ (lifeguard tower number, other landmark)

Time observers were on the beach: From: _____(time) to: _____ (time)

Time grunion were seen on the beach: From: _____(time) to: _____ (time)

Observation of grunion: (Choose one)

At the peak of the run, estimate how many fish were on the beach.

- A. We saw no fish, or only a few individuals, with no spawning.
- B. 10 - 100 fish scattered on the beach at a time, some spawning.
- C. 100-500 fish spawning at different times, at one or more locations.
- D. Hundreds of fish spawning at the same time in several areas of beach.
- E. Thousands of fish together, little sand visible between the fish.
- F. Fish covering the beach several individuals deep, a silver lining along the surf.

How extensive an area along the surf line of the beach was the run?

- A. Only in one area, 20 meters (~22 yards) or less long.
- B. Sporadically in several different, small areas along the beach.
- C. More than 20 meters (~22 yards) of beach were involved at the peak of the run.
- D. Nearly the entire length of the beach held fish at the peak of the run.

If you answered C or D, estimate the length of beach **involved in the run:** _____

Presence of kelp on the beach **where the grunion spawned:**

- A. None/very little.
- B. Scattered.
- C. Large clumps with lots of space between each clump. Clumps were 30 cm (1 ft) or more above the sand in height and 1 meter (3 ft) or more in diameter.
- D. Kelp covered most of the swash zone.

(Over)

Presence of kelp on the beach **elsewhere**:

- A. None/very little.
- B. Scattered.
- C. Large clumps with lots of space between each clump. Clumps were 30 cm (1 ft) or more above the sand in height and 1 meter (3 ft) or more in diameter.
- D. Kelp covered most of the swash zone.

How many people were on the beach near the grunion? _____

Were any people in the water*? Yes No Any dogs*? Yes No

If people were present, describe the behavior:

- Noisy and restless*
- Quiet and calm

April and May are closed season. Was anyone collecting the grunion? Yes* No

If yes, for what purpose? _____

Did you see animal predators* hunting grunion during the run? Yes No

If so, what? _____

Were there artificial lights* on the beach, including flashlights*? Yes No

**All of the starred items can negatively affect the success of grunion spawning, and your success in finding them.*

Additional comments:

Grunion Greeters

(1) **Name:** _____

E-mail: _____ **Phone:** _____

(2) **Name:** _____

E-mail: _____ **Phone:** _____

Other Names/Emails: _____

Please submit your observations through **<http://www.grunion.org>**. **THANK YOU!**

[Data collection form developed by K. Martin, M. Schaadt, S. Lawrenz-Miller.]