**BELUGA NECROPSY REPORT**

*ID Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Location: \_\_\_\_\_\_\_\_\_\_ (Lat;Long)\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Reported by: \_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Contact info:\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Date found: \_\_\_\_\_\_\_\_\_\_Date recovered: \_\_\_\_\_\_\_\_\_\_Necropsy Date: \_\_\_\_\_*

*Species: beluga (D. leucas) Age: Sex: M F Unknown*

*Prosectors: Contact info: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Weather info:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Human Interaction Forms?*\_\_; *Chain of custody forms:*\_; Level A forms filled out:\_\_ **BRIEF HISTORY:**

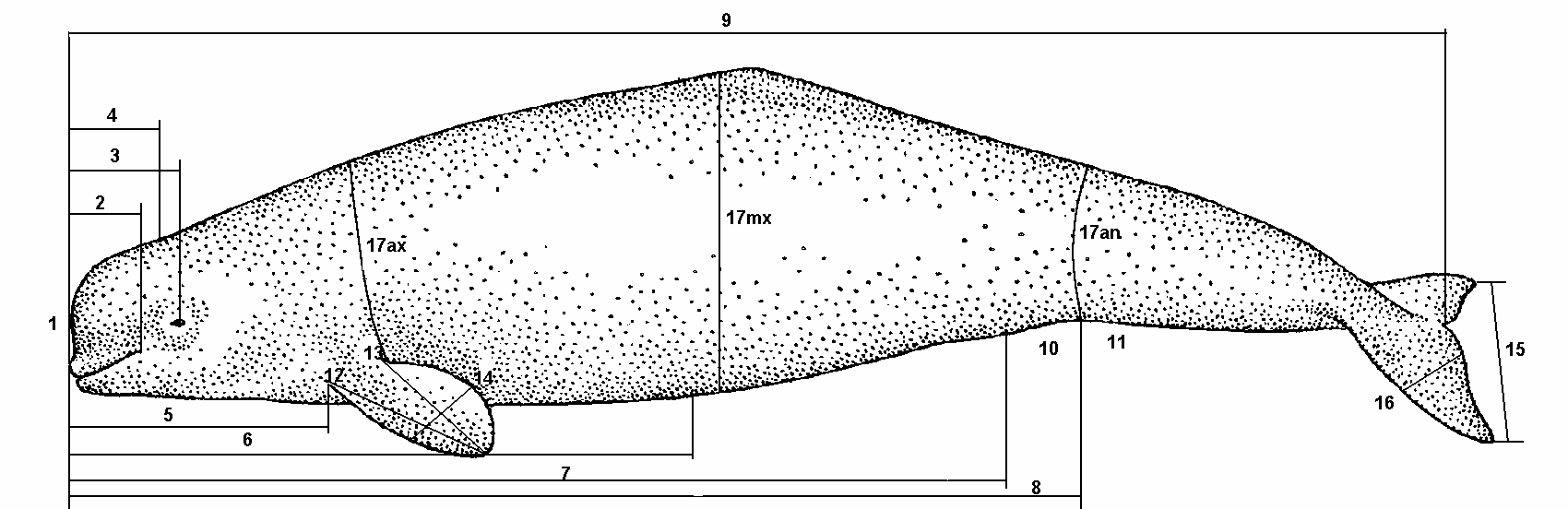
**GROSS DIAGNOSIS:**

**MEASUREMENTS** (cm unless indicated)

Tooth count: Total \_\_\_\_\_\_ UpL \_\_\_\_\_ Up R \_\_\_\_\_ Low L \_\_\_\_\_ Low R\_\_\_\_\_

Diameter / length largest tooth

|  |  |  |  |
| --- | --- | --- | --- |
| **Basic Measurements** | **Value** | **Basic Measurements\*** | **Value** |
| Total length (9) |  | Skin thickness |  |
| **snout to center of blowhole (4)** |  | Blubber thickness, dorsal bdf **(w/o skin)** straight down from caudal end of dorsal ridge, 45° from spine. |  |
| **Center of BH to Dorsal ridge (18)** |  | Blubber thickness, dorsal midline Axillary **(w/o skin)** |  |
| Girth, anus (17an) |  | Blubber thickness, ventral midline Axillary **(w/o skin)** |  |
| Girth at axilla (17ax) |  | Blubber thickness, lateral Axillary, **(w/o skin)** |  |
| Fluke width (15) |  | Weight of the Epaxial L1-12 |  |



BDF

Axillary

Blubber depth sites

### EXTERNAL EXAMINATION (CIRCLE)

|  |  |  |
| --- | --- | --- |
| **CARCASS CLASSIFICATION:** |  | **BODY CONDITION:** |
| Code 2 Fresh |  | 1 Robust |
| Code 2.5 mild decomposition |  | 2 Good |
| Code 3 moderate (decomposed organs intact) |  | 3 Average |
| Code 4 Poor (advance decomposition) |  | 4 Poor |
| Code 5 Mummified |  | 5 Emaciated |

**GROSS NECROPSY FINDINGS:**

|  |
| --- |
| **PHYSICAL EXAM** (general condition, lesions, deformities, appearance, color):  PHOTO of Overall Left lateral \_\_\_\_\_ Right lateral \_\_\_\_\_ Dorsal \_\_\_\_\_\_\_ Ventral \_\_\_\_\_\_ Dorsal Ridge \_\_\_\_\_\_\_Flank fullness \_\_\_\_\_\_\_ Cd-R Tail shot” \_\_\_\_\_\_\_\_\_ Fluke shot \_\_\_\_\_\_\_\_  Open mouth shot \_\_\_\_\_\_\_\_\_ if abnormal Grey Scale standard \_\_\_\_\_\_\_\_\_\_  Dorsal ridge collection |
| **SQ:** |
| **MUSCULOSKELETAL** (color of muscle, appearance of joint fluid:  **Weight of L1-L12 epaxial muscle \_\_\_\_\_\_** |
| **BODY CAVITIES:**  Peritoneal Cavity (Abdomen): FLUID?  Pleural (Chest) cavity: FLUID? |
| **RESPIRATORY** (foam, fluid, texture and color of lungs, parasites? – don’t forget the sinuses and blowhole). Is the fat band at the back of the lungs thick?  **If young, check to see if the lung Floats.**  **Lung** Right: \_\_\_\_\_\_\_\_\_\_g Left: \_\_\_\_\_\_\_\_\_\_\_g |
| **CARDIOVASCULAR:** |
| Whole Heart Mass \_\_\_\_\_\_\_\_\_\_g;RV mass \_\_\_\_\_\_\_\_\_\_\_g; LV/ IVS mass \_\_\_\_\_\_\_\_\_\_g  RAV\_\_\_\_\_\_\_\_\_\_\_cm; PA \_\_\_\_\_\_\_\_\_\_\_\_cm; LAV \_\_\_\_\_\_\_\_\_\_\_cm; AoV \_\_\_\_\_\_\_\_\_\_\_cm;  RV \_\_\_\_\_\_\_\_\_\_\_cm; IVS \_\_\_\_\_\_\_\_\_\_\_\_\_cm; LV \_\_\_\_\_\_\_\_\_\_\_\_\_cm |
| **ENDOCRINE:**  **Adrenals:** Right : \_\_\_\_\_\_\_\_\_\_g Left : \_\_\_\_\_\_\_\_\_\_\_g  **Thyroid:** Right : \_\_\_\_\_\_\_\_\_\_g Left : \_\_\_\_\_\_\_g |
| **URINARY:** is there fat around the kidneys? Location of live worms: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Kidney** Right: \_\_\_\_\_\_\_\_\_\_g # of Nodules \_\_\_\_\_\_\_ weight of nodules \_\_\_\_\_\_\_\_\_\_\_\_\_g  Left: \_\_\_\_\_\_\_\_\_\_\_g # of Nodules \_\_\_\_\_\_\_ weight of nodules \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_g |
| **LIVER:** (bile, parasites, color, texture)  **Liver**\_\_\_\_\_\_\_\_\_\_\_\_\_g |
| **DIGESTIVE:** (serosal surface, content, mucosal surface, parasites): TEETH PHOTO |
| **REPRODUCTIVE:** (measure (weight and LXDXH) ovaries, uterine horns, placenta if present):  Left uterine horn: \_\_\_\_\_x\_\_\_\_\_x\_\_\_\_\_; Right uterine horn: \_\_\_\_\_x\_\_\_\_\_x\_\_\_\_\_;  Right ovary: \_\_\_\_\_x\_\_\_\_\_x\_\_\_\_\_; \_\_\_\_\_\_\_\_\_\_g; left ovary \_\_\_\_\_x\_\_\_\_\_x\_\_\_\_\_; \_\_\_\_\_\_\_\_\_g  Weight of testes and epididymus: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_g  Placenta\_\_\_\_\_\_\_\_\_\_\_\_\_\_g \_\_\_\_X \_\_\_\_\_X\_\_\_\_\_cm |
| **NERVOUS:** |

**CARCASS DISPOSITION:**

**COMMENTS (CAUSE OF DEATH, INTERPRETATIONS):**

**HOW DID YOU TAKE YOUR TOXICOLOGY SAMPLES?:**

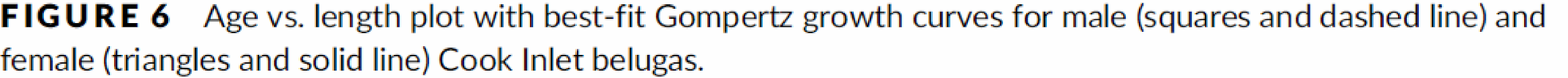
Circle: Ziplocs / Foil / Acetone-cleaned Foil / Teflon / Whirlpak / I-Chem jars

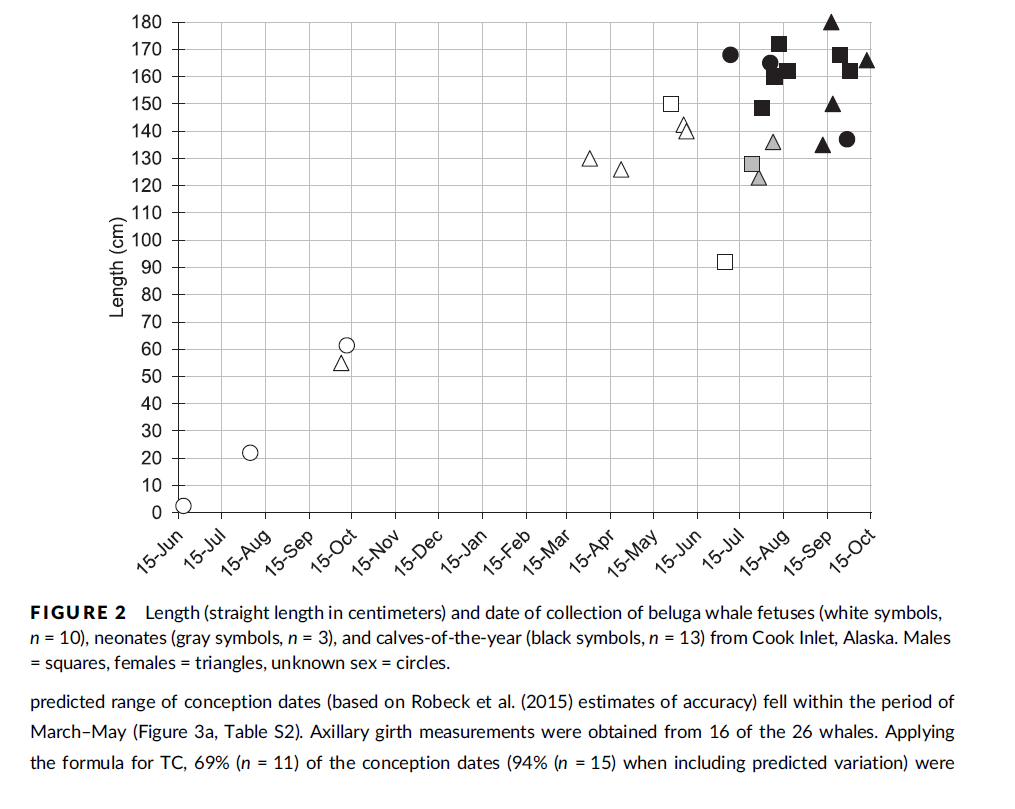
Type of gloves (circle): Nitrile, latex, other Powder free / powdered.

**ESTIMATE THE AGE BY LENGTH:** From Vos 2019 (updated 2022) females with an estimated age of less than seven years and males with an estimated age of less than eight years were coded as juvenile

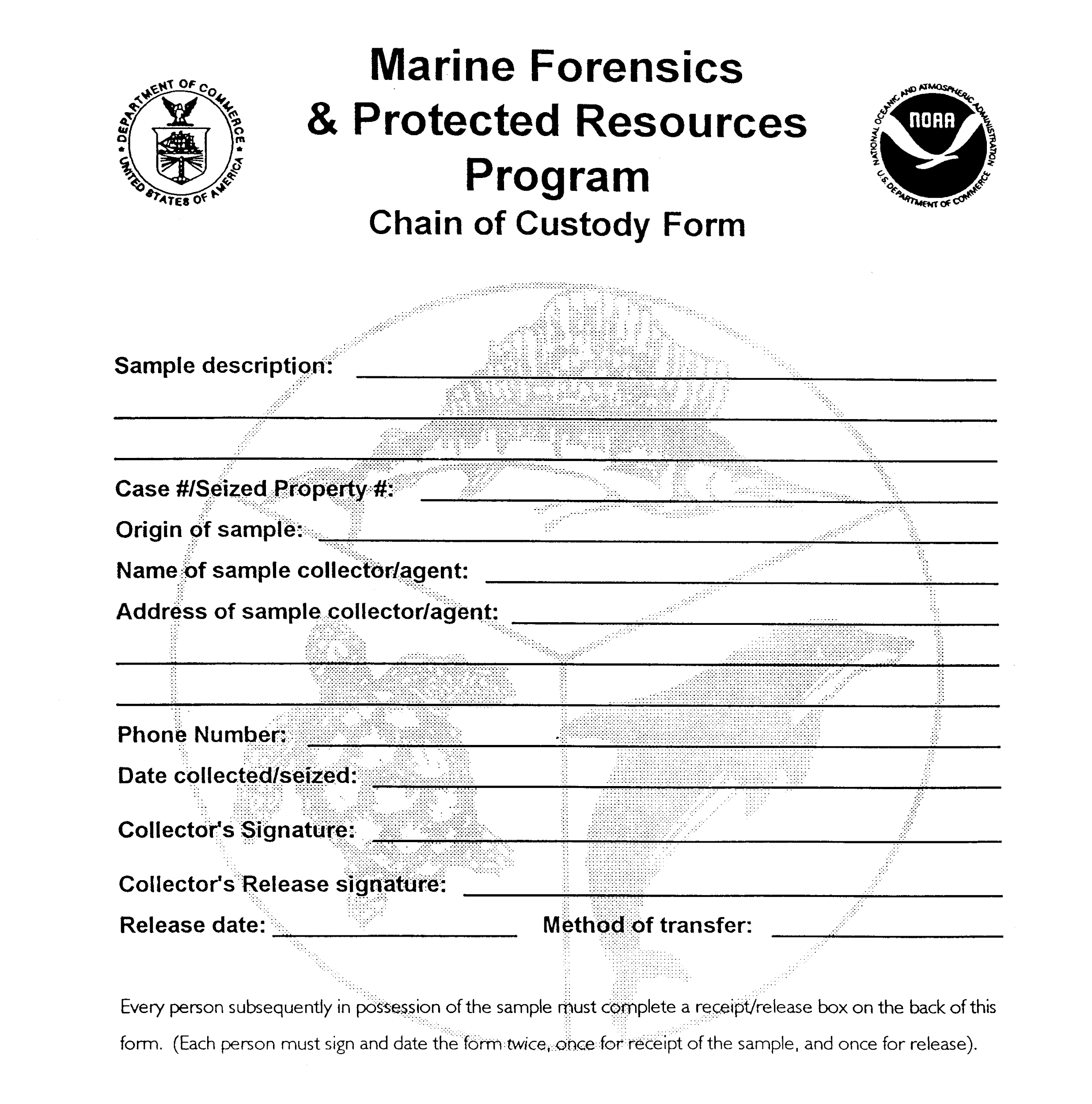
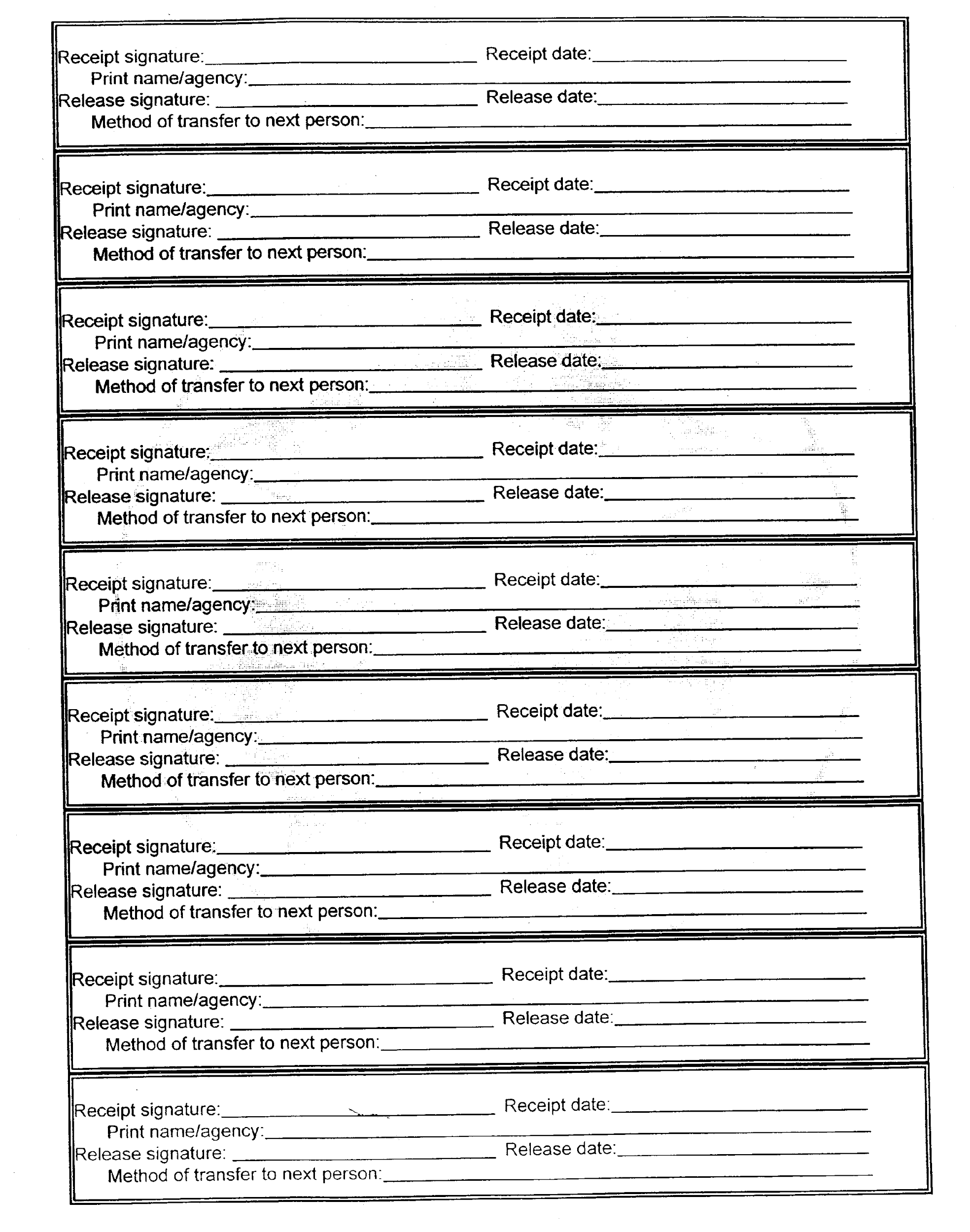
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Chart, scatter chart

Description automatically generated



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**from Shelden et al. 2019 Breeding and calving seasonality in CIB Fetus vs neonates vs YOY**latex vinyl powder-free nitrile

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