

Estimation of mantle length
composition of neon flying squid caught
by Chinese Taipei squid jigging fishery

Chinese Taipei

4th March 2026 (Wed.)

Neon flying squid (NFS)

- Name
 - *Ommastrephes bartramii*
 - Red squid, Aka-ika
- Geographical distribution
 - Temperate and subtropical waters

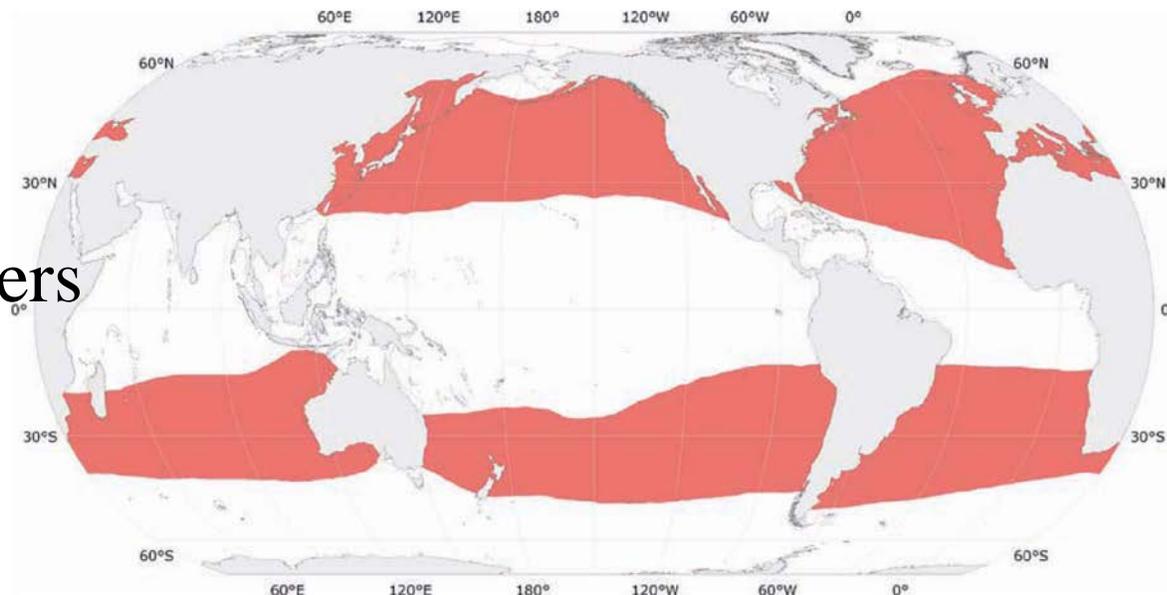
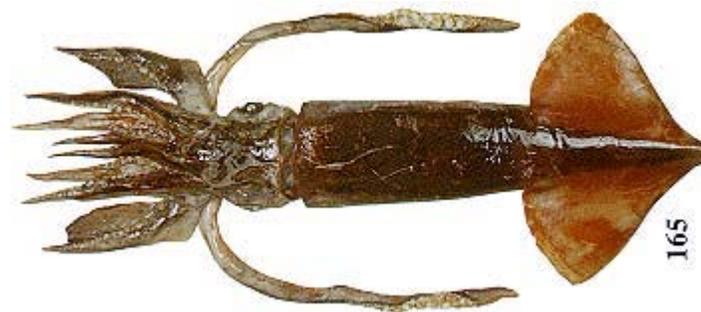


Fig. 291 *Ommastrephes bartramii*

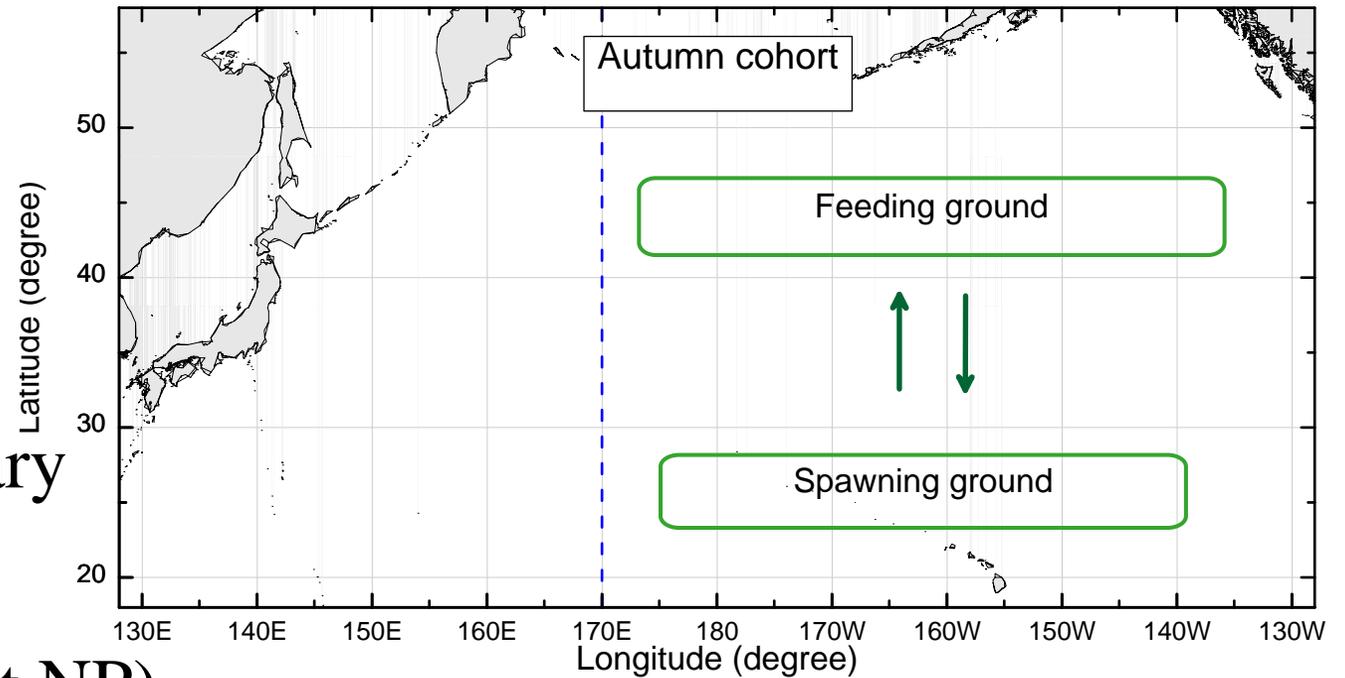
■ Known distribution

NFS populations in the North Pacific

- Two cohorts
 - Autumn cohort
 - Winter-spring cohort

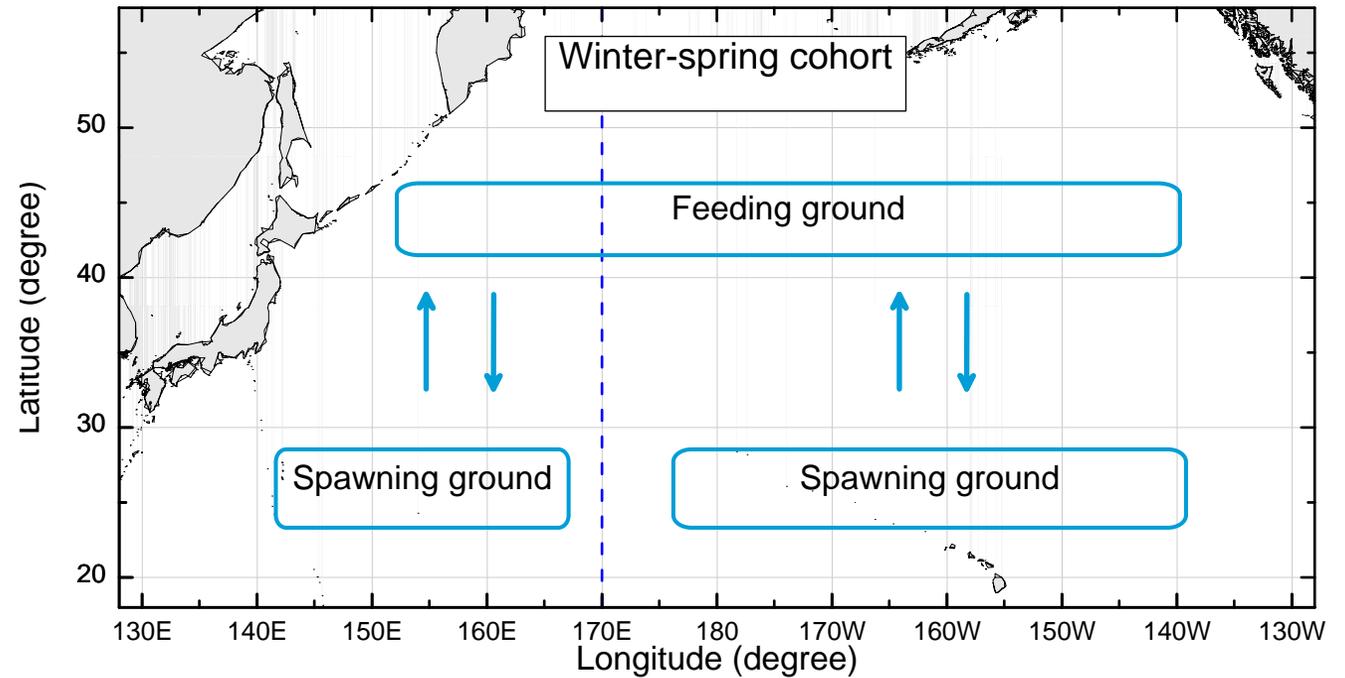
Autumn cohort

- Hatching dates
 - From September to February
- Feeding grounds
 - East of 170°E (rare in West NP)
 - ML \geq 35 cm during June-September
 - Female dominant
- Caught in east of 170°E: Autumn cohort (NE stock)



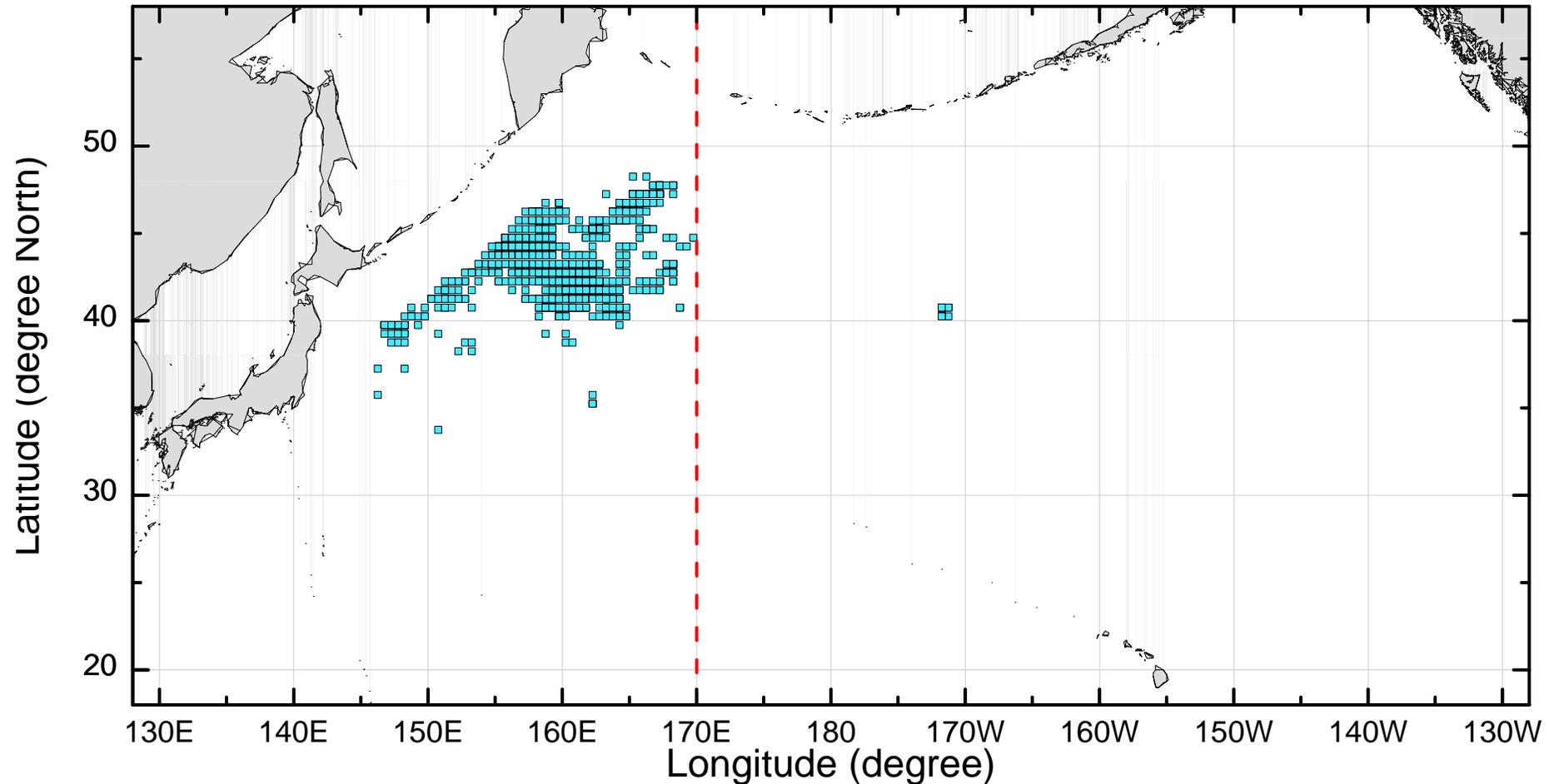
Winter-spring cohort

- Hatching dates
 - From January to August
- Feeding grounds
 - Across the North Pacific
 - ML <30 cm during June-September



- Caught in west of 170°E: Winter-spring cohort (NW stock)

Distribution of Chinese Taipei's NFS fishery (2016-2024)



Target on Winter-spring cohort

BW category of NFS

- Category

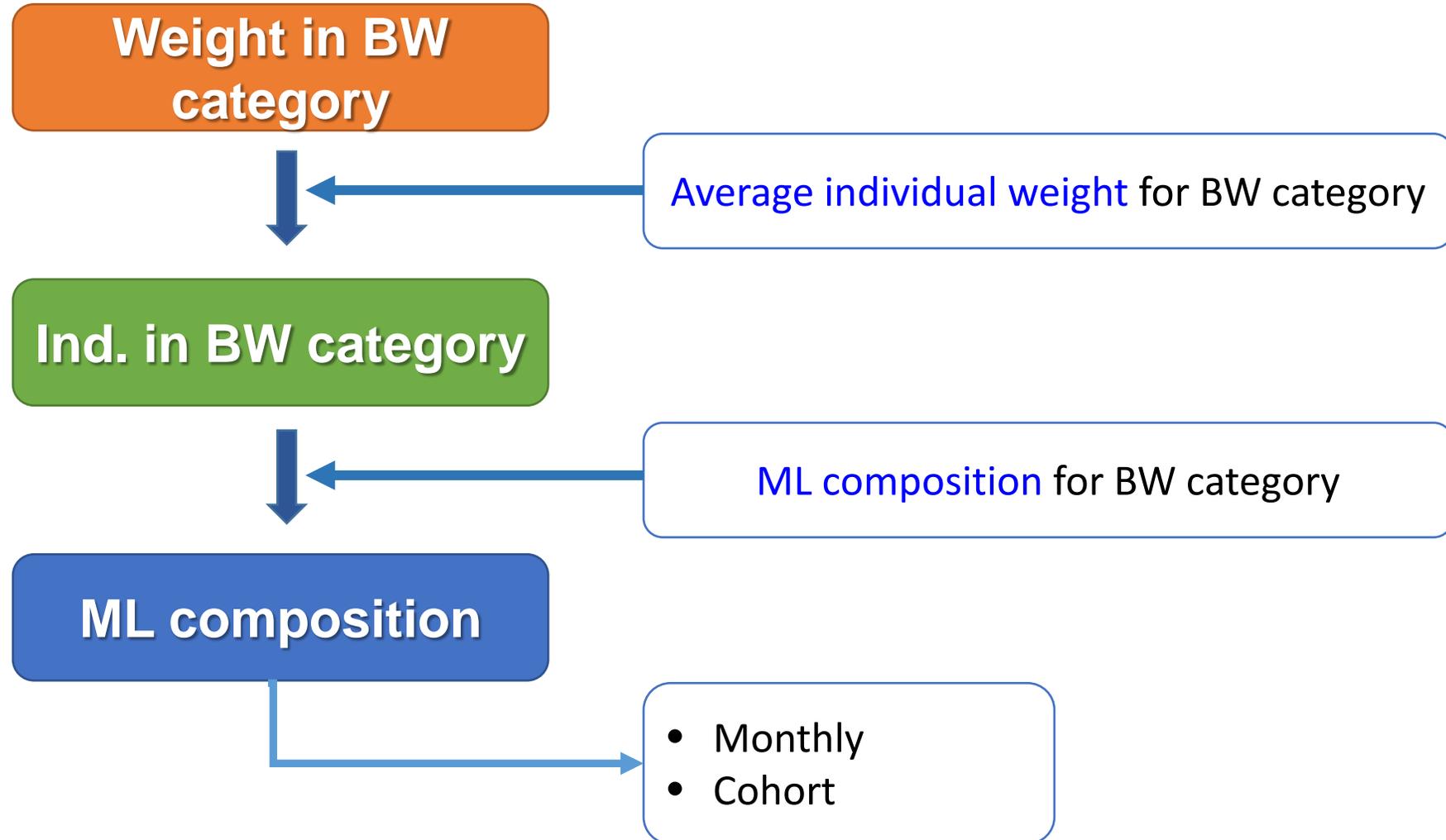
- [<300], [300-400], [400-600], [>600] g
- Miscellaneous
 - Tube, fin and head
 - Add to [400-600] and [>600] g

- Catch

- Logbooks: number of cases and weight per case
- Calculation: weight by category and total catch



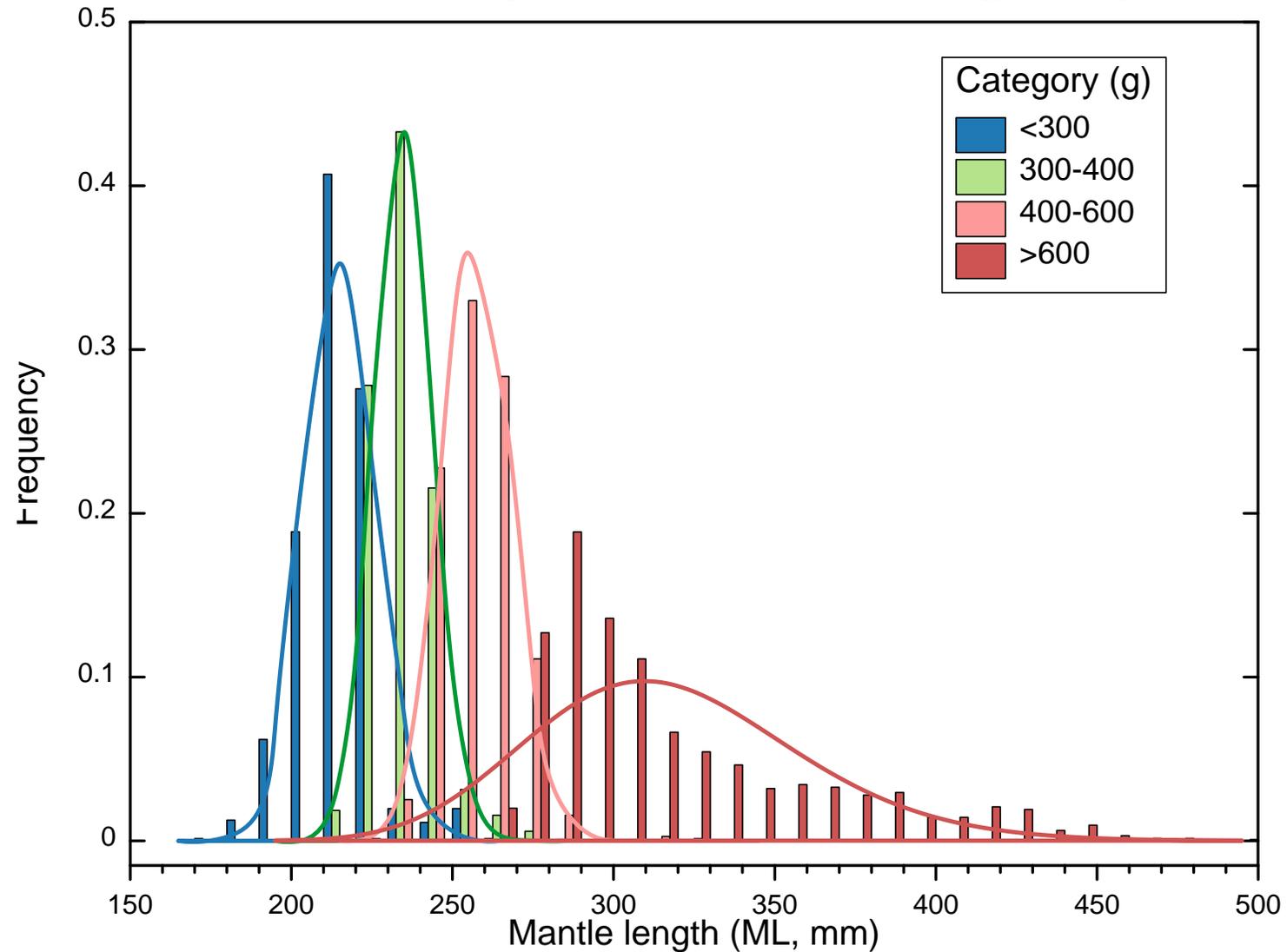
Flowchart of estimation



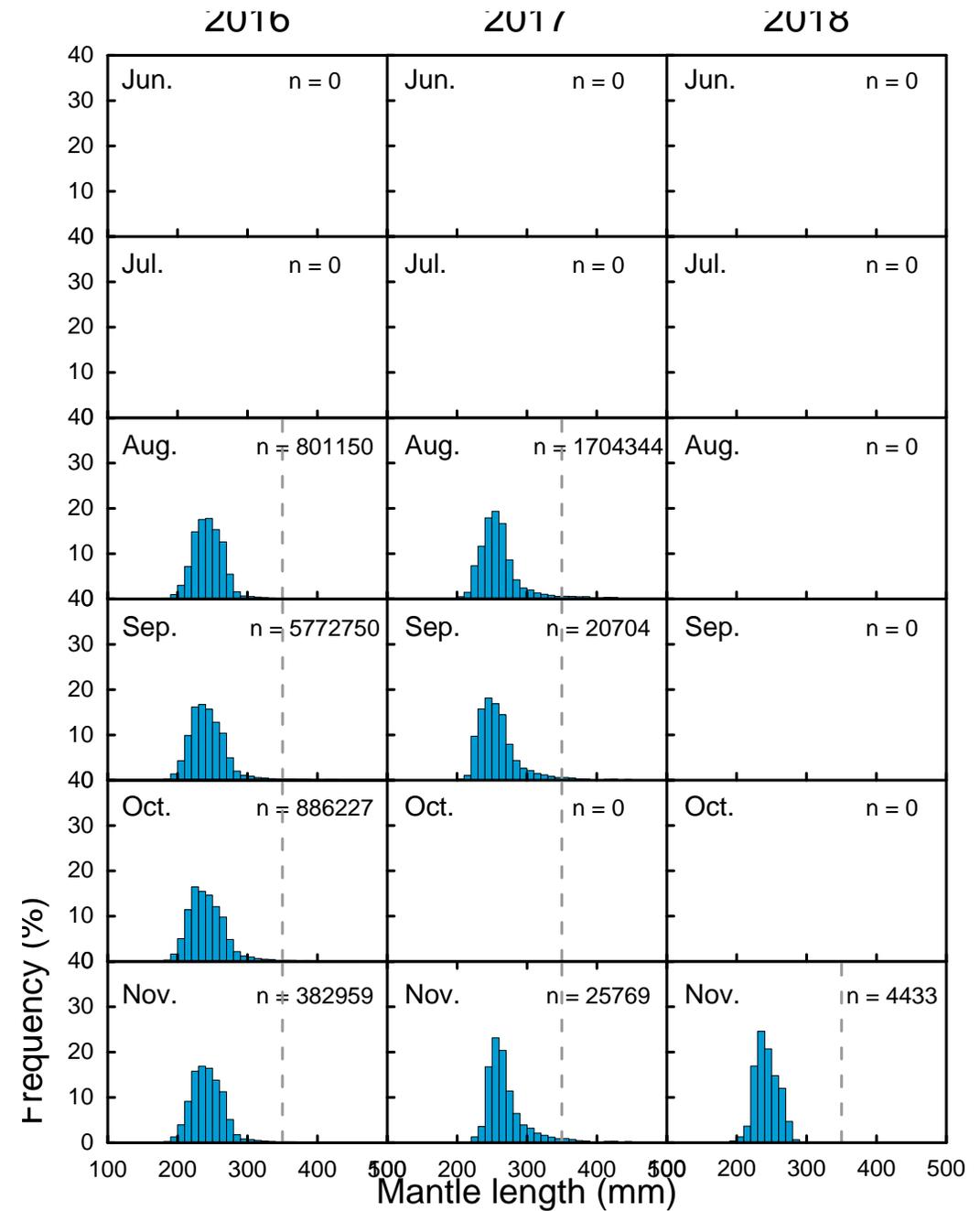
Biological data of BW category

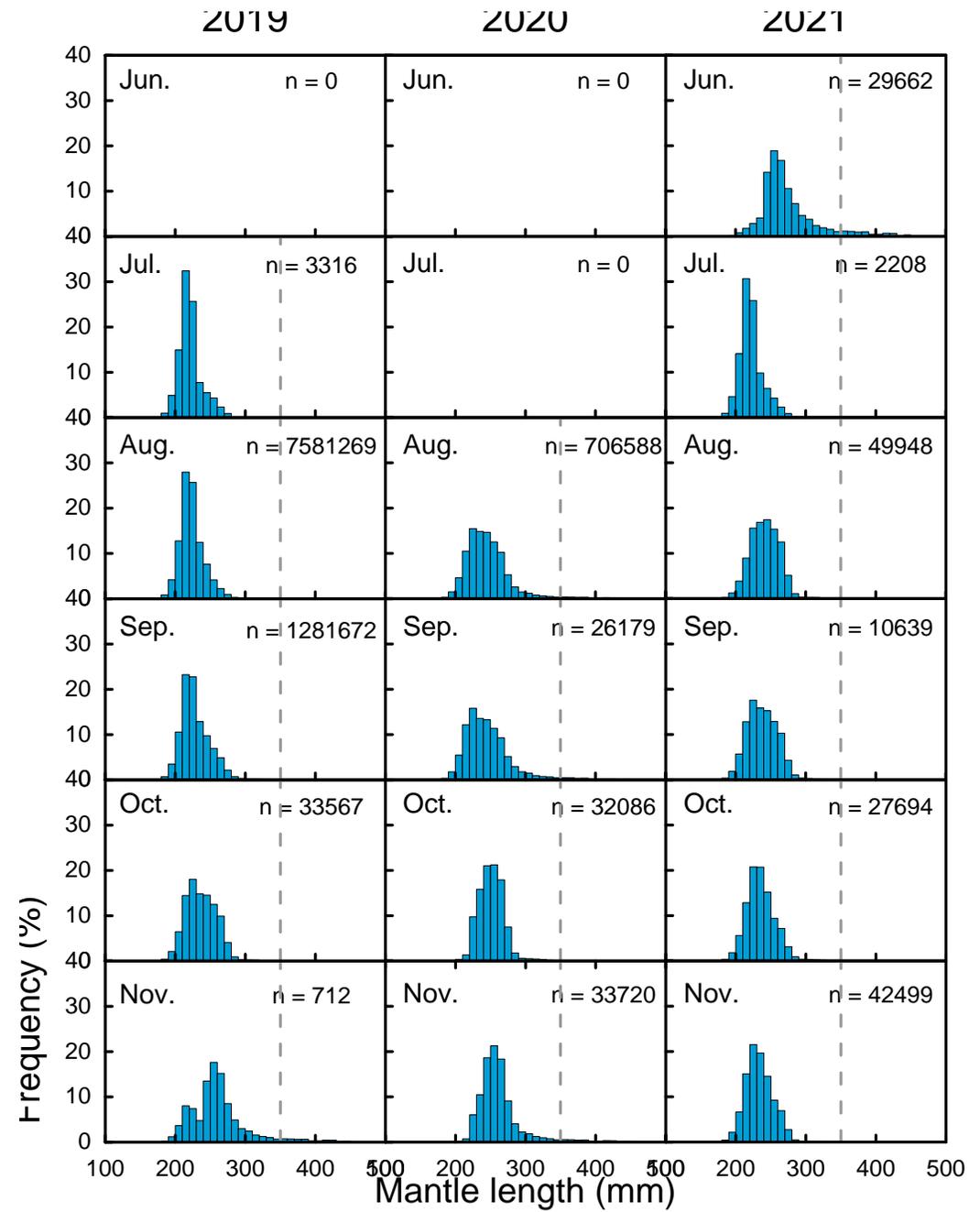
Category	n	ML (mm)	Std.Dev	BW (g)	Std.Dev
<300 g	710	215.2	11.4	260.4	31.0
300-400	1021	234.7	9.3	349.6	28.9
400-600	1467	257.5	11.1	490.6	57.0
>600	1251	317.7	44.5	1044.1	560.0

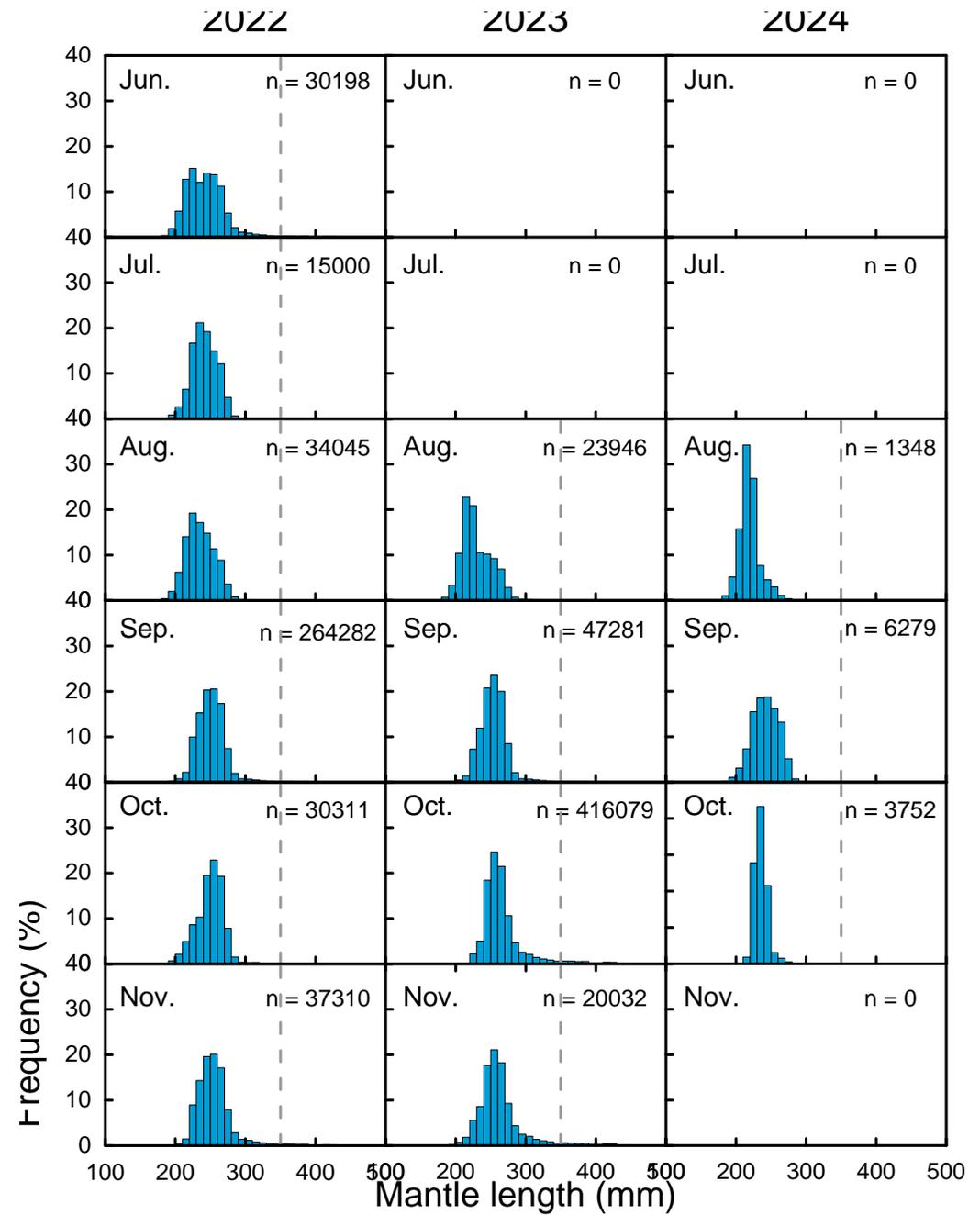
ML composition by BW category



Monthly ML composition







Summary

- ML composition of the NFS catch
 - Estimated from average individual weight
 - ML composition by BW category
- Applications
 - Separate cohort by ML criteria (35 cm)
 - Catch-at-length data
- Future
 - Establish biological data for BW category

Supplementary