

8-Oct-19	2	50	150	64 WPT0332	Arthropoda
8-Oct-19	2	50	150	64 WPT0332	Myzozoa
8-Oct-19	2	50	150	64 WPT0332	Arthropoda
8-Oct-19	2	50	150	64 WPT0332	Arthropoda
8-Oct-19	2	50	150	64 WPT0332	Arthropoda
8-Oct-19	2	50	150	64 WPT0332	Arthropoda
8-Oct-19	2	50	150	64 WPT0332	Arthropoda
8-Oct-19	2	50	150	64 WPT0332	Arthropoda
8-Oct-19	2	50	150	64 WPT0332	Mollusca
8-Oct-19	2	50	150	64 WPT0332	Arthropoda
8-Oct-19	2	50	150	64 WPT0332	Bryozoa
8-Oct-19	2	50	150	64 WPT0332	Arthropoda
8-Oct-19	2	50	150	64 WPT0332	Arthropoda
8-Oct-19	2	50	150	64 WPT0332	Arthropoda
8-Oct-19	2	50	150	64 WPT0332	Cnidaria
8-Oct-19	2	50	150	64 WPT0332	Mollusca
8-Oct-19	2	50	150	64 WPT0332	Echinodermata
8-Oct-19	2	50	150	64 WPT0332	Arthropoda
8-Oct-19	2	50	150	64 WPT0332	Mollusca
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Mollusca
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Cnidaria
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Echinodermata
8-Oct-19	2	50	333	4 WPT0332	Annelida
8-Oct-19	2	50	333	4 WPT0332	Arthropoda
8-Oct-19	2	50	333	4 WPT0332	Cnidaria
8-Oct-19	2	50	333	4 WPT0332	Arthropoda

8-Oct-19	2	50	333	4	WPT0332	Mollusca
8-Oct-19	2	50	333	4	WPT0332	Cnidaria
8-Oct-19	2	50	333	4	WPT0332	Arthropoda
8-Oct-19	3	20	150	32	WPT0334	Arthropoda
8-Oct-19	3	20	150	32	WPT0334	Arthropoda
8-Oct-19	3	20	150	32	WPT0334	Arthropoda
8-Oct-19	3	20	150	32	WPT0334	Arthropoda
8-Oct-19	3	20	150	32	WPT0334	Arthropoda
8-Oct-19	3	20	150	32	WPT0334	Arthropoda
8-Oct-19	3	20	150	32	WPT0334	Arthropoda
8-Oct-19	3	20	150	32	WPT0334	Mollusca
8-Oct-19	3	20	150	32	WPT0334	Bryozoa
8-Oct-19	3	20	150	32	WPT0334	Arthropoda
8-Oct-19	3	20	150	32	WPT0334	Cnidaria
8-Oct-19	3	20	150	32	WPT0334	Mollusca
8-Oct-19	3	20	150	32	WPT0334	Echinodermata
8-Oct-19	3	20	150	32	WPT0334	Mollusca
8-Oct-19	3	20	150	32	WPT0334	Arthropoda
8-Oct-19	3	20	150	32	WPT0334	Arthropoda
8-Oct-19	3	20	150	32	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Myzozoa
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Echinodermata
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Mollusca
8-Oct-19	3	20	333	2.666667	WPT0334	Chaetognatha
8-Oct-19	3	20	333	2.666667	WPT0334	Bryozoa
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda

8-Oct-19	3	20	333	2.666667	WPT0334	Chordata
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Cnidaria
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Annelida
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	3	20	333	2.666667	WPT0334	Mollusca
8-Oct-19	3	20	333	2.666667	WPT0334	Arthropoda
8-Oct-19	4	20	150	64	WPT0335 Rep 2; n	Arthropoda
8-Oct-19	4	20	150	64	WPT0335 Rep 2; n	Arthropoda
8-Oct-19	4	20	150	64	WPT0335 Rep 2; n	Arthropoda
8-Oct-19	4	20	150	64	WPT0335 Rep 2; n	Arthropoda
8-Oct-19	4	20	150	64	WPT0335 Rep 2; n	Arthropoda
8-Oct-19	4	20	150	64	WPT0335 Rep 2; n	Arthropoda
8-Oct-19	4	20	150	64	WPT0335 Rep 2; n	Arthropoda
8-Oct-19	4	20	150	64	WPT0335 Rep 2; n	Arthropoda
8-Oct-19	4	20	150	64	WPT0335 Rep 2; n	Arthropoda
8-Oct-19	4	20	150	64	WPT0335 Rep 2; n	Mollusca
8-Oct-19	4	20	150	64	WPT0335 Rep 2; n	Arthropoda
8-Oct-19	4	20	150	64	WPT0335 Rep 2; n	Echinodermata
8-Oct-19	4	20	150	64	WPT0335 Rep 2; n	Mollusca
8-Oct-19	4	20	150	64	WPT0335 Rep 2; n	Arthropoda
8-Oct-19	4	20	150	64	WPT0335 Rep 2; n	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Myzozoa
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Mollusca
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Echinodermata
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Chaetognatha
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Cnidaria
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Arthropoda
8-Oct-19	4	20	333	4	WPT0335 Rep 2	Cnidaria

8-Oct-19	4	20	333	4 WPT0335 Rep 2	Mollusca
8-Oct-19	4	20	333	4 WPT0335 Rep 2	Arthropoda
8-Oct-19	5	50	150	64 WPT0336	Arthropoda
8-Oct-19	5	50	150	64 WPT0336	Arthropoda
8-Oct-19	5	50	150	64 WPT0336	Arthropoda
8-Oct-19	5	50	150	64 WPT0336	Arthropoda
8-Oct-19	5	50	150	64 WPT0336	Arthropoda
8-Oct-19	5	50	150	64 WPT0336	Arthropoda
8-Oct-19	5	50	150	64 WPT0336	Arthropoda
8-Oct-19	5	50	150	64 WPT0336	Arthropoda
8-Oct-19	5	50	150	64 WPT0336	Arthropoda
8-Oct-19	5	50	150	64 WPT0336	Mollusca
8-Oct-19	5	50	150	64 WPT0336	Mollusca
8-Oct-19	5	50	150	64 WPT0336	Bryozoa
8-Oct-19	5	50	150	64 WPT0336	Arthropoda
8-Oct-19	5	50	150	64 WPT0336	Echinodermata
8-Oct-19	5	50	150	64 WPT0336	Mollusca
8-Oct-19	5	50	150	64 WPT0336	Arthropoda
8-Oct-19	5	50	150	64 WPT0336	Arthropoda
8-Oct-19	5	50	150	64 WPT0336	Arthropoda
8-Oct-19	5	50	150	64 WPT0336	Arthropoda
8-Oct-19	5	50	150	64 WPT0336	Arthropoda
8-Oct-19	5	50	150	64 WPT0336	Cnidaria
8-Oct-19	5	50	150	64 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Myzozoa
8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Chaetognatha
8-Oct-19	5	50	333	8 WPT0336	Echinodermata
8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Mollusca
8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Mollusca

8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Cnidaria
8-Oct-19	5	50	333	8 WPT0336	
8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Bryozoa
8-Oct-19	5	50	333	8 WPT0336	Arthropoda
8-Oct-19	5	50	333	8 WPT0336	Arthropoda

Caitlin has finished counting the plankton samples, the results are attached. It's broken down by station. Columns H:Q are counts of those that were stained (live), and columns R:AA are the dead ones. T

C1 = copepodid stage 1

C2 = copepodid stage 2

C3 = copepodid stage 3

FC4 = copepodid stage 4, phenotypic female

MC4 = copepodid stage 4, phenotypic male

FC5 = copepodid stage 4, phenotypic female

MC5 = copepodid stage 4, phenotypic male FA = adult female MA = adult male

Caitlin says there was quite a lot of carnage in the 150µm mesh samples

- it caught a lot of smaller stages that appear to be quite fragile, they tended to be broken up so she had to count 333 samples.

Cheers, Rob

Cook Inlet Zooplankton - Seismic Sampling

Date 10/8/19

Collectors Michael Stoc Marian Shafer Chris Guo Jesse Ross Brian Reid (Captain)

Vertical plankton tows with 150 and 333 micron mesh per station, before and after seismic testing.

Station	Sample	Time	Latitude	Longitude	Tow_distance m	Tow_time s
1	Before	12:43	59° 32.768'	152° 22.22'	20	50
2	Before	12:50	59° 33.023'	152° 22.23'	50	119
3	After	14:07	59° 32.992'	152° 21.74'	20	42
4	After	14:14	59° 33.236'	152° 21.65'	20	40
5	After	14:21	59° 33.434'	152° 21.59'	50	101

Species	Total	% Live	% Dead
Pseudocalanus	222	63.51351	36.48649
Oithona similis	146	22.60274	77.39726
Paracalanus parvus	46	56.52174	43.47826
Acartia longiremis	17	58.82353	41.17647
Calanus pacificus	2	100	0
Microcalanus	8	50	50
Neocalanus plumchrus	4	100	0
Epilabidocera longipedata	1	100	0
Nauplii	75	69.33333	30.66667
Barnacle Nauplii	1	100	0
Shrimp zoea	1	100	0
Siphonophora	3	66.66667	33.33333
Limacina helicina	7	57.14286	42.85714
Egg	3	100	0
Veliger (Bivalvia)	1	100	0
Oikopleura dioica	2	50	50
Veliger (Gastropoda)	2	100	0
PLUTEUS larva (Echinodermata)	2	0	100
CALYPTOPIS (Euphausids)	2	100	0
Pseudocalanus	210	87.14286	12.85714
Acartia longiremis	62	80.64516	19.35484
Calanus marshallae	30	93.33333	6.66667
Paracalanus parvus	22	90.90909	9.090909
Calanus pacificus	15	100	0
Epilabidocera longipedata	2	100	0
Oithona spinirostris	3	100	0
Oithona similis	1	0	100
Centropages abdominalis	2	50	50
Metridia pacifica	1	100	0
PLUTEUS larva (Echinodermata)	7	85.71429	14.28571
Barnacle Nauplii	3	100	0
Themisto pacifica	8	87.5	12.5
CALYPTOPIS (Euphausids)	24	95.83333	4.166667
Furcilia (Euphausiid)	6	100	0
Limacina helicina	1	100	0
Egg	1	0	100
Veliger (Gastropoda)	2	50	50
Siphonophora	2	100	0
Pseudocalanus	337	12.75964	87.24036
Oithona similis	330	38.78788	61.21212
Acartia longiremis	18	38.88889	61.11111
Paracalanus parvus	107	65.42056	34.57944
Calanus marshallae	5	80	20
Microcalanus	3	100	0
Triconia borealis	21	85.71429	14.28571
Calanus pacificus	7	71.42857	28.57143

Oithona spinirostris	1	100	0
Clausocalanus	1	100	0
Corycaeus anglicus	4	100	0
Metridia pacifica	2	100	0
Centropages abdominalis	1	100	0
Aetideus divergens	1	100	0
Scolecithricella minor	1	100	0
CALYPTOPIS (Euphausiids)	8	62.5	37.5
Veliger (Gastropoda)	2	0	100
Cypris (Cirriprdia)	1	0	100
CYPHONAUTES larva (Bryozoa)	34	14.70588	85.29412
Furcilia (Euphausiid)	1	100	0
Nauplii	27	18.51852	81.48148
Themisto pacifica	1	0	100
Siphonophora	2	100	0
Veliger (Bivalvia)	3	33.33333	66.66667
PLUTEUS larva (Echinodermata)	4	100	0
Barnacle Nauplii	6	50	50
Limacina helicina	13	15.38462	84.61538
Pseudocalanus	266	75.93985	24.06015
Acartia longiremis	85	91.76471	8.235294
Metridia pacifica	22	100	0
Oithona spinirostris	17	100	0
Calanus pacificus	33	93.93939	6.060606
Calanus marshallae	29	93.10345	6.896552
Centropages abdominalis	8	100	0
Paracalanus parvus	20	70	30
Corycaeus anglicus	6	100	0
Scolecithricella minor	11	63.63636	36.36364
Tisbidae	1	100	0
Epilabidocera longipedata	5	80	20
Mesocalanus tenuicornis	2	100	0
Metridia okhotensis	1	100	0
Ctenocalanus	1	100	0
Limacina helicina	16	56.25	43.75
Idotea	1	0	100
CALYPTOPIS (Euphausiids)	43	97.67442	2.325581
Catablema	1	100	0
Barnacle Nauplii	15	93.33333	6.666667
Themisto pacifica	8	62.5	37.5
Furcilia (Euphausiid)	6	100	0
Shrimp zoea	3	100	0
PLUTEUS larva (Echinodermata)	10	70	30
Spionidae	1	100	0
Nauplii	1	100	0
Siphonophora	2	0	100
Cypris (Cirriprdia)	4	50	50

Veliger (Gastropoda)	17	41.17647	58.82353
Aglantha digitale	1	100	0
Crab zoea	1	0	100
Pseudocalanus	194	20.10309	79.89691
Oithona similis	364	23.07692	76.92308
Acartia longiremis	10	20	80
Paracalanus parvus	53	49.0566	50.9434
Calanus marshallae	4	100	0
Calanus pacificus	9	88.88889	11.11111
Oithona spinirostris	1	100	0
Metridia pacifica	1	100	0
Limacina helicina	33	45.45455	54.54545
CYPHONAUTES larva (Bryozoa)	9	22.22222	77.77778
Nauplii	42	54.7619	45.2381
Clytia gregaria	1	0	100
Veliger (Gastropoda)	5	0	100
PLUTEUS larva (Echinodermata)	12	25	75
Veliger (Bivalvia)	8	12.5	87.5
Furcilia (Euphausiid)	3	100	0
CALYPTOPIS (Euphausids)	3	66.66667	33.33333
Barnacle Nauplii	1	100	0
Pseudocalanus	249	87.14859	12.85141
Acartia longiremis	46	93.47826	6.521739
Paracalanus parvus	58	93.10345	6.896552
Calanus pacificus	49	89.79592	10.20408
Mesocalanus tenuicornis	15	93.33333	6.666667
Calanus marshallae	86	87.2093	12.7907
Eucalanus bungii	2	50	50
Metridia pacifica	18	100	0
Oithona spinirostris	6	50	50
Microcalanus	1	100	0
Epilabidocera longipedata	6	100	0
Corycaeus anglicus	2	50	50
Clausocalanus	1	100	0
Oithona similis	3	33.33333	66.66667
Neocalanus plumchrus	11	100	0
Centropages abdominalis	1	100	0
Tortanus discaudatus	1	100	0
PLUTEUS larva (Echinodermata)	51	70.58824	29.41176
Shrimp zoea	2	100	0
CALYPTOPIS (Euphausids)	53	77.35849	22.64151
Nauplii	1	100	0
Limacina helicina	27	55.55556	44.44444
Parasagitta elegans	2	100	0
CYPHONAUTES larva (Bryozoa)	2	50	50
Cyphocaris Challengeri	1	100	0
Barnacle Nauplii	32	90.625	9.375

Oikopleura dioica	1	100	0
Themisto pacifica	2	100	0
Siphonophora	1	100	0
Furcilia (Euphausiid)	14	100	0
Spionidae	1	100	0
Podon leuckartii	3	66.66667	33.33333
Veliger (Gastropoda)	14	50	50
Cypris (Cirriprdia)	1	0	100
Pseudocalanus	134	25.37313	74.62687
Oithona similis	178	6.179775	93.82022
Paracalanus parvus	51	60.78431	39.21569
Calanus marshallae	4	100	0
Microsetella norvegica	1	0	100
Acartia longiremis	10	50	50
Tortanus discaudatus	2	100	0
Calanus pacificus	1	100	0
Corycaeus anglicus	1	100	0
Nauplii	49	14.28571	85.71429
Limacina helicina	25	0	100
Barnacle Nauplii	7	71.42857	28.57143
PLUTEUS larva (Echinodermata)	6	16.66667	83.33333
Veliger (Bivalvia)	5	0	100
Themisto pacifica	1	100	0
CALYPTOPIS (Euphausiids)	2	100	0
Pseudocalanus	198	83.83838	16.16162
Acartia longiremis	52	86.53846	13.46154
Paracalanus parvus	37	83.78378	16.21622
Calanus marshallae	36	94.44444	5.555556
Calanus pacificus	37	97.2973	2.702703
Oithona similis	7	57.14286	42.85714
Metridia pacifica	10	90	10
Corycaeus anglicus	4	100	0
Centropages abdominalis	14	100	0
Clausocalanus	1	100	0
Acartia clausi	2	100	0
Epilabidocera longipedata	1	100	0
Barnacle Nauplii	33	90.90909	9.090909
Veliger (Gastropoda)	9	66.66667	33.33333
CALYPTOPIS (Euphausiids)	20	95	5
Cypris (Cirriprdia)	5	40	60
PLUTEUS larva (Echinodermata)	17	94.11765	5.882353
Shrimp zoea	1	100	0
Themisto pacifica	25	88	12
Parasagitta elegans	2	100	0
Nauplii	5	100	0
Siphonophora	1	100	0
Furcilia (Euphausiid)	4	100	0
Clytia gregaria	2	50	50

Limacina helicina	31	83.87097	16.12903
Podon leuckartii	2	50	50
Pseudocalanus	275	77.81818	22.18182
Oithona similis	270	33.7037	66.2963
Paracalanus parvus	64	85.9375	14.0625
Acartia longiremis	21	76.19048	23.80952
Microcalanus	12	50	50
Calanus marshallae	1	100	0
Triconia borealis	26	92.30769	7.692308
Scolecithricella minor	1	100	0
Centropages abdominalis	2	100	0
Calanus pacificus	4	100	0
Metridia pacifica	1	100	0
Limacina helicina	17	76.47059	23.52941
Veliger (Bivalvia)	3	33.33333	66.66667
CYPHONAUTES larva (Bryozoa)	35	31.42857	68.57143
Cypris (Cirripedia)	1	0	100
PLUTEUS larva (Echinodermata)	1	0	100
Veliger (Gastropoda)	1	100	0
Crab zoea	1	100	0
Podon leuckartii	1	100	0
Nauplii	35	45.71429	54.28571
Themisto pacifica	3	66.66667	33.33333
CALYPTOPIS (Euphausiids)	4	100	0
Barnacle Nauplii	3	100	0
Siphonophora	6	50	50
Shrimp zoea	1	100	0
Pseudocalanus	171	80.70175	19.29825
Acartia longiremis	58	84.48276	15.51724
Metridia pacifica	12	100	0
Paracalanus parvus	21	90.47619	9.52381
Calanus pacificus	15	100	0
Oithona spinirostris	17	94.11765	5.882353
Centropages abdominalis	2	100	0
Epilabidocera longipedata	1	100	0
Calanus marshallae	32	96.875	3.125
Corycaeus anglicus	3	100	0
Clausocalanus	1	100	0
Tortanus discaudatus	1	100	0
Scolecithricella minor	1	100	0
Themisto pacifica	4	75	25
Parasagitta elegans	1	100	0
PLUTEUS larva (Echinodermata)	8	62.5	37.5
CALYPTOPIS (Euphausiids)	22	86.36364	13.63636
Limacina helicina	11	90.90909	9.090909
Barnacle Nauplii	11	100	0
Veliger (Gastropoda)	2	100	0

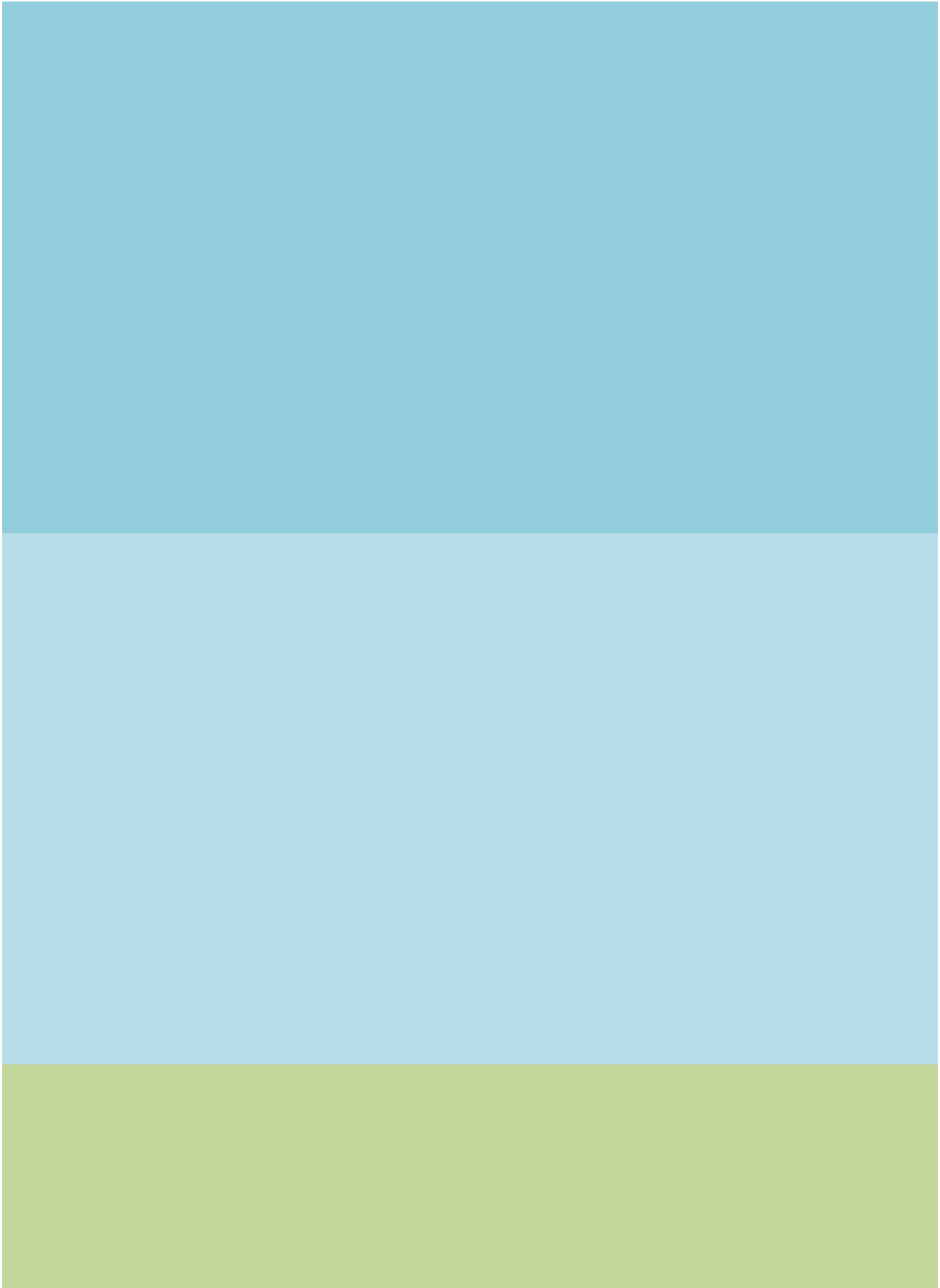
Cyphocaris Challengeri	4	75	25
Siphonophora	1	100	0
Egg	3	66.66667	33.33333
Cypris (Cirriprdia)	1	100	0
CYPHONAUTES larva (Bryozoa)	1	100	0
Crab zoea	2	100	0
Furcilia (Euphausiid)	2	100	0

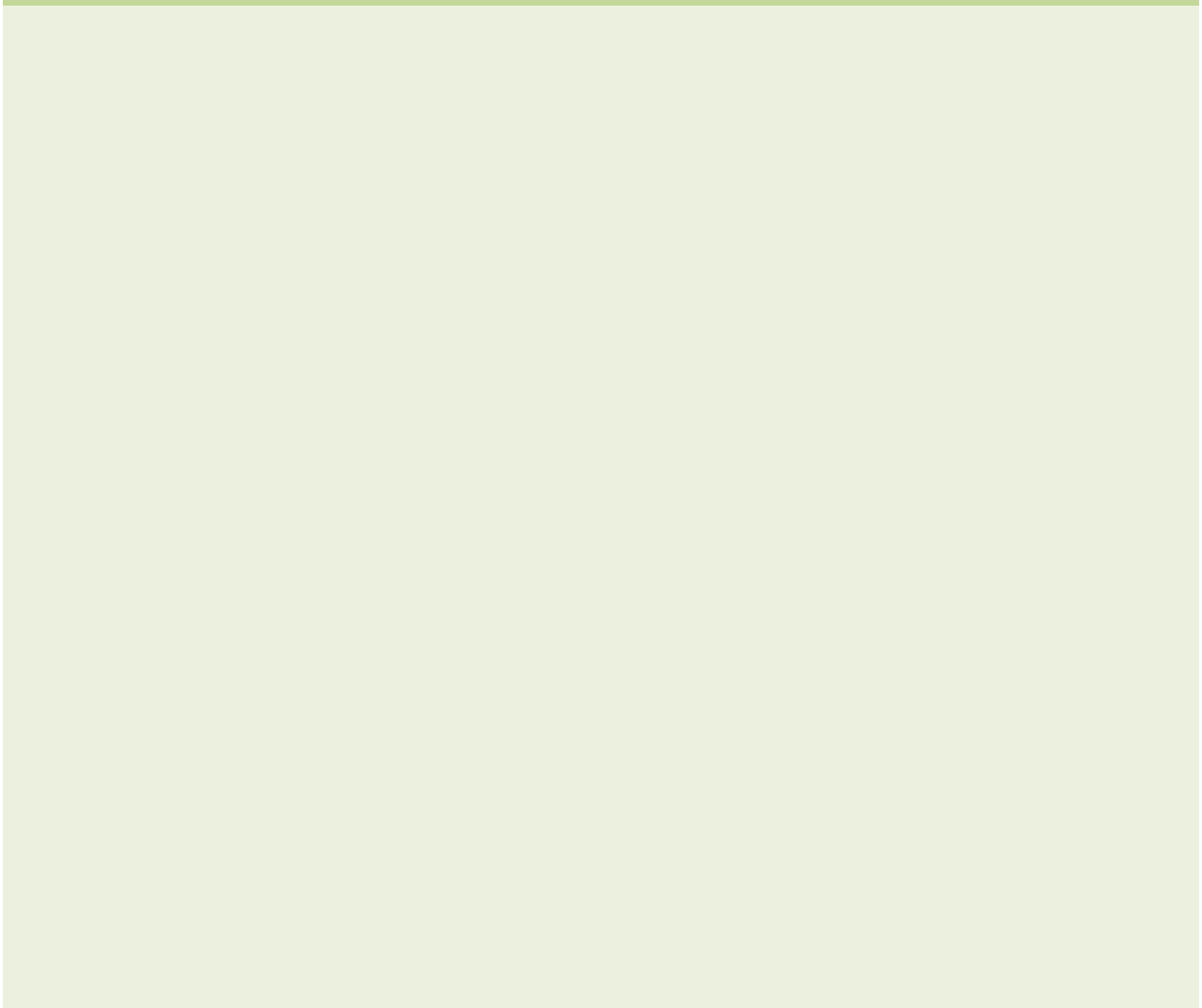
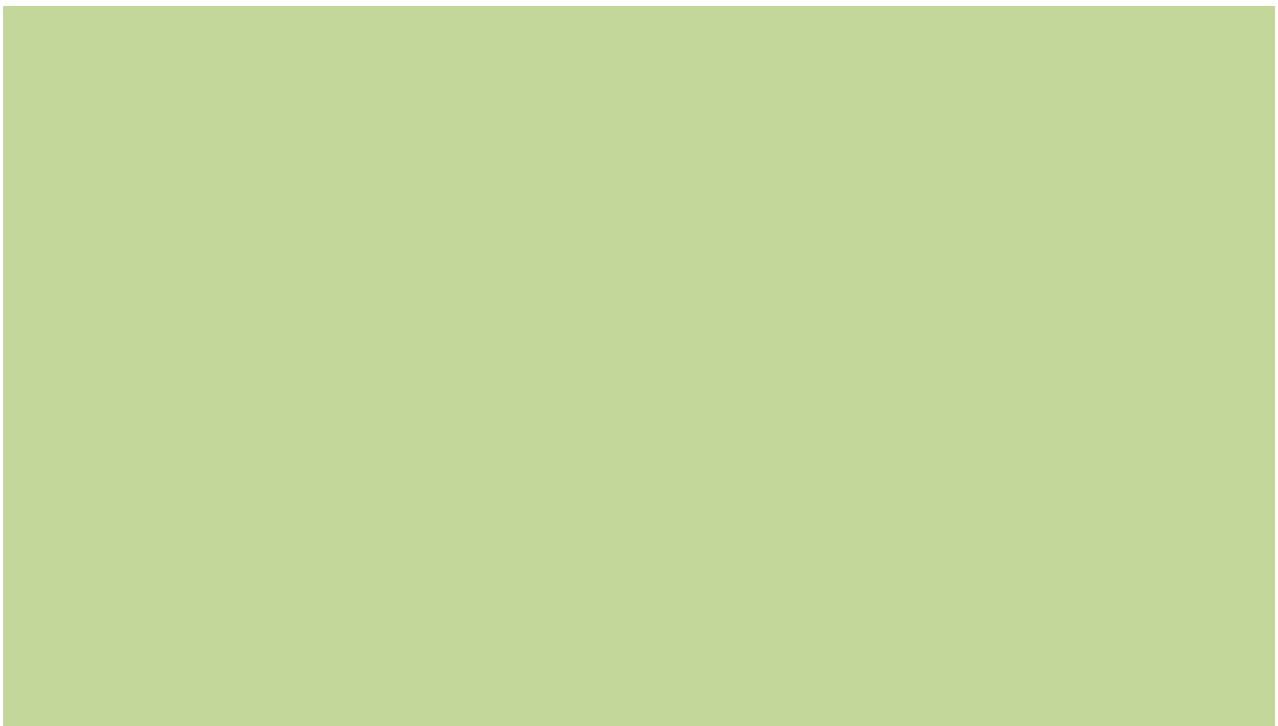
pecies and stage/sex (for copepods).
The columns are the stages:

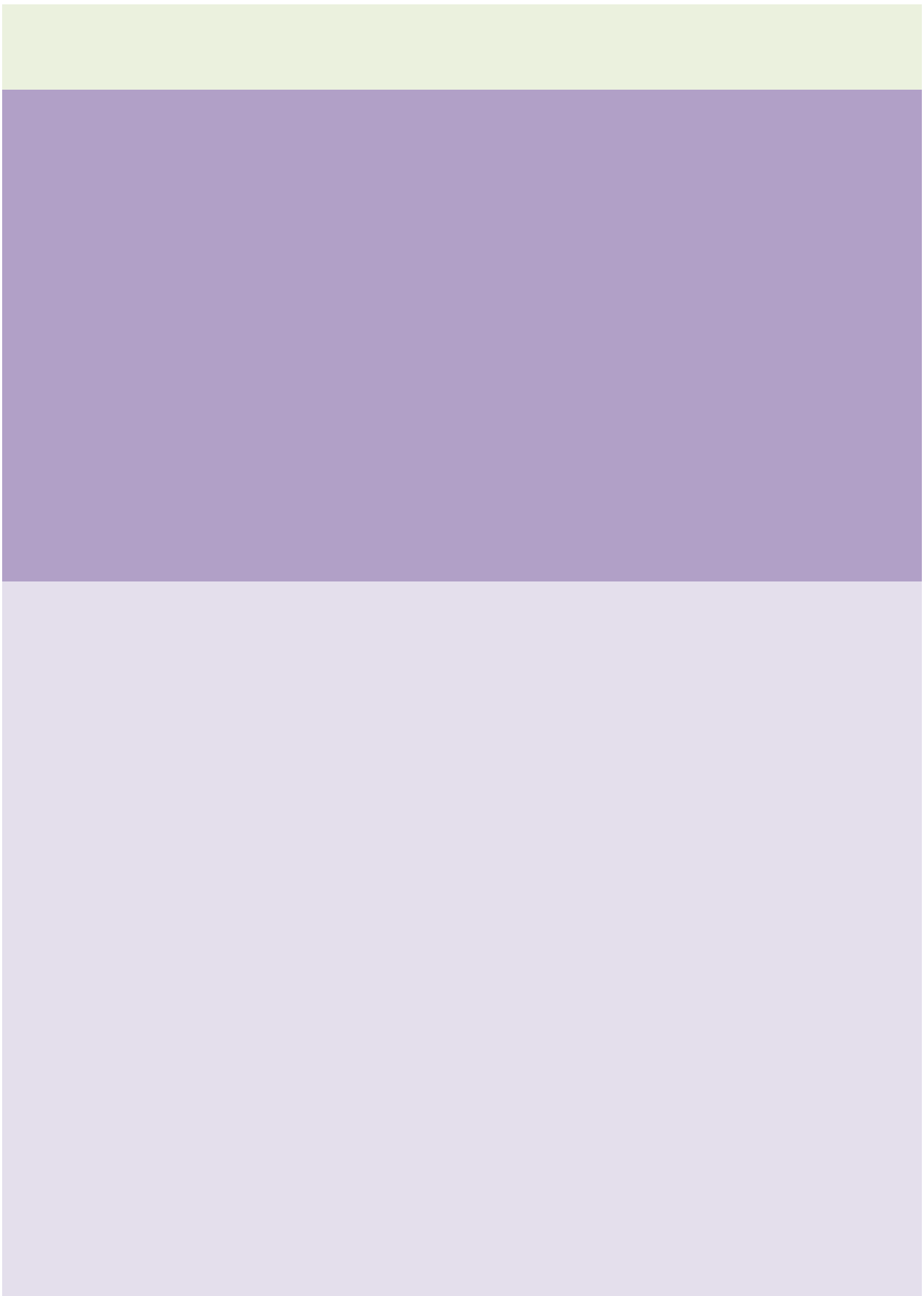
e was counting parts, not whole animals. They were also hard to get though in time (the stain fades so the

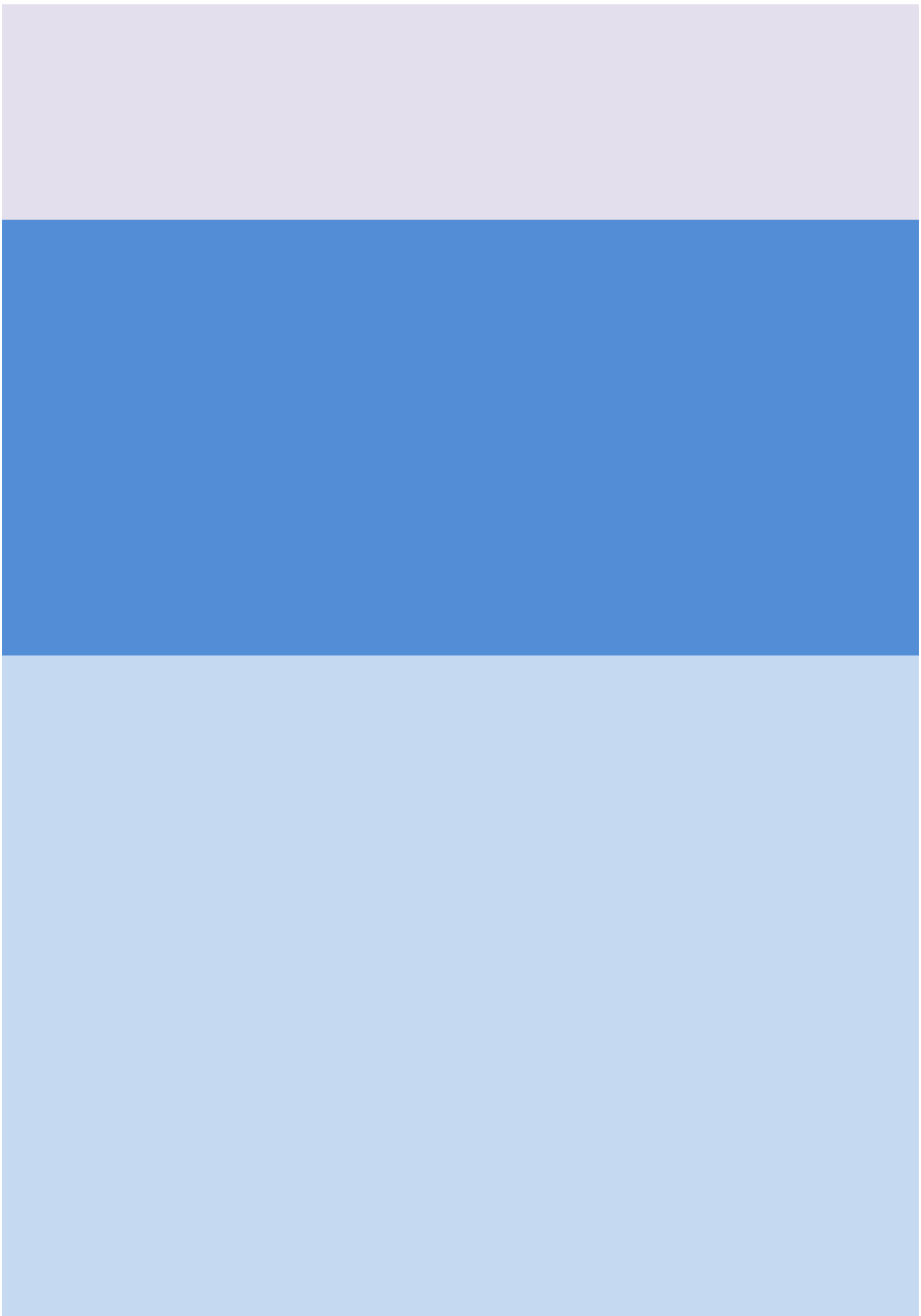
Flow_start

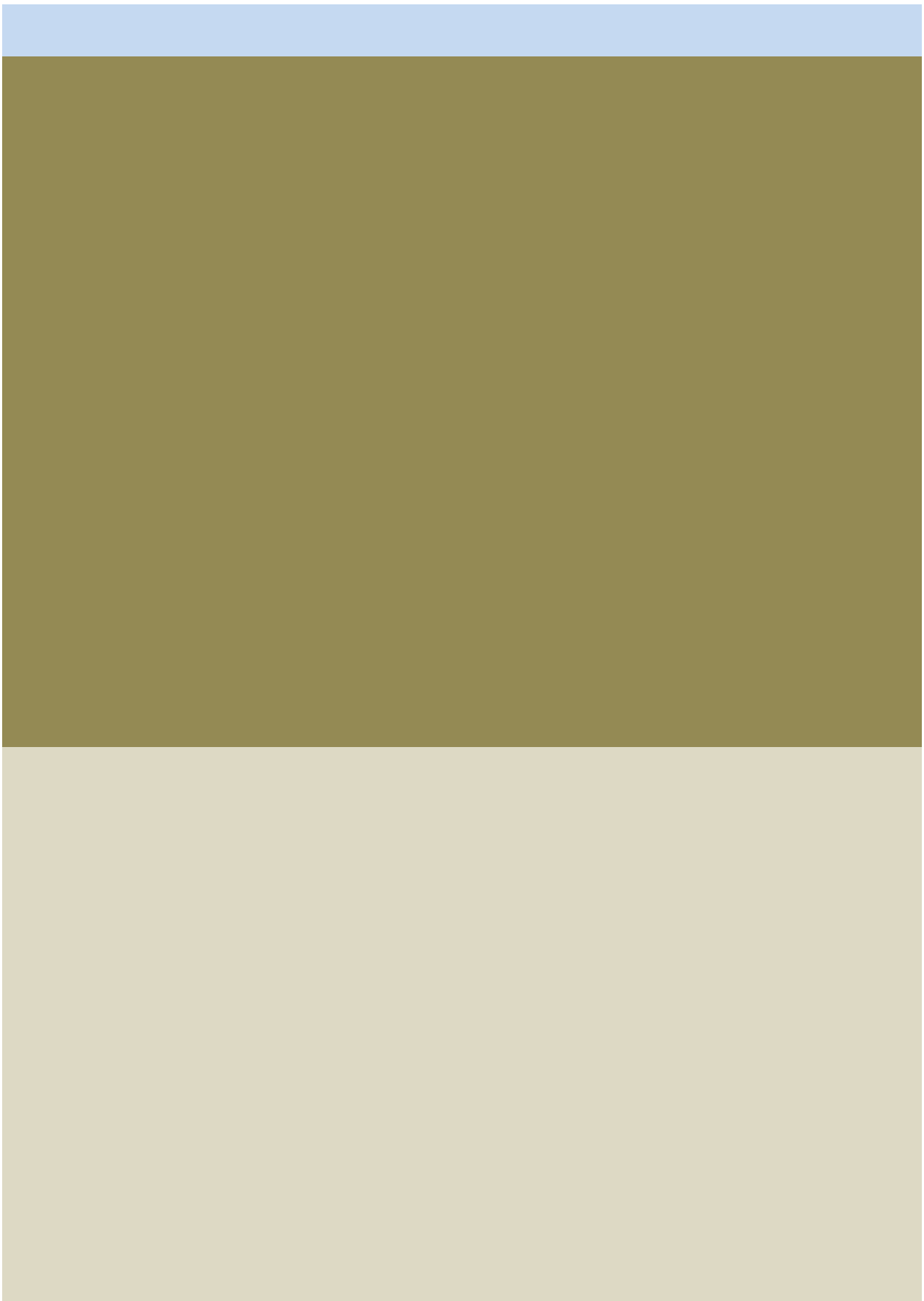
102488
103192
104893
105694
106566





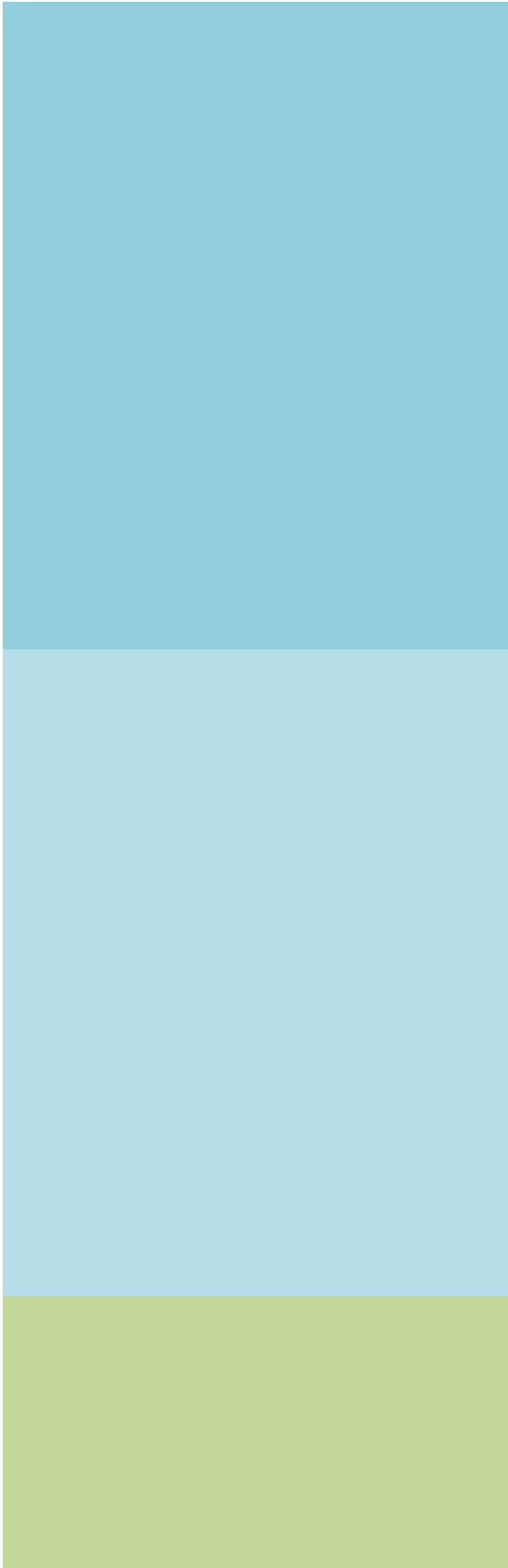


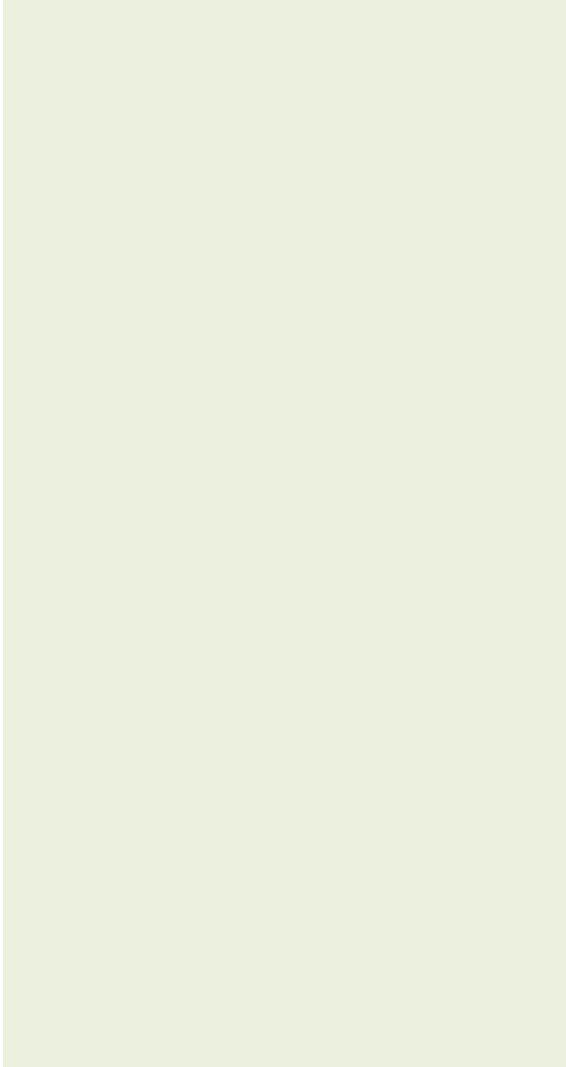


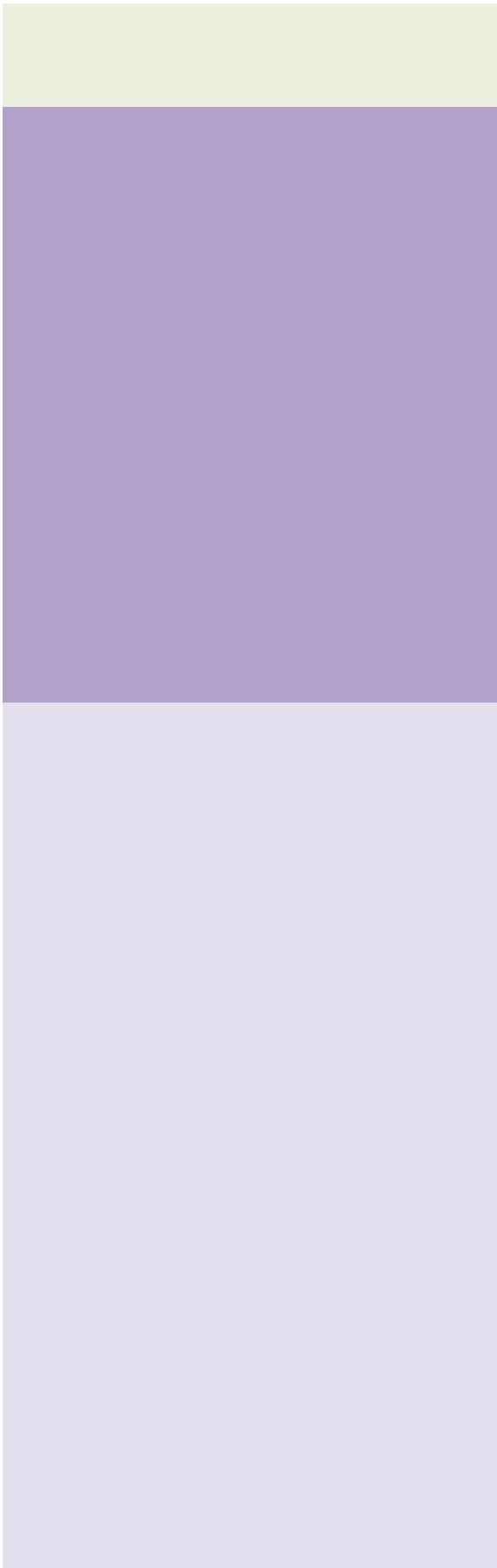




sample needs counted quickly). The 333 μ m mesh sampled larger, more robust copepods that did bette













r. So she recommends just looking at the