#### **Chapter 3**

Blah blah …

#### **3.3 Results**

#### 3.3.1 Environmental conditions

In the Discovery Islands, surface temperature and salinity increased throughout the season in 2016, however in late 2015 the salinity and temperature dropped to … insert #s.

The surface temperature and salinity of Johnstone Strait remained consistent throughout the salmon outmigration season in 2015 and 2016, varying from 9.9-10.9 oC and 28-31o%

(side note: both are flat lines but 2016 has higher overall salinity than 2015 does… more mixing)

3.3.2. zoops

The zooplankton biomass was higher overall in 2016 than in 2015 (insert hard #s). The zooplankton biomass composition by size class were dominated by either 250 μm size fractions or large 2000 μm gelatinous zooplankton (insert figure). In 2015, the Discovery Islands had low overall zooplankton biomass, with the exception of June 5th, 2015, which had the highest biomass in the study at 1245 mg/m3.

In the Discovery Islands, there was a high prevalence of cladocerans captured early and mid-season in both 2015 and 2016, shifting to more numerous calanoid composition in mid-June. (inserts #s) In the Johnstone Strait, the two main zooplankton types caught in tows were calanoid copepods and euphausiid eggs, as well as cladocerans and `other` (give more #/details here later).

3.3.3. *Salmon diet comp*.

Pi barn+clad+other, cu okio; both species okio; both species cala+chaeto = di 2015

Bad, good, good feeding?

Both species euph eggs; pi echino+oiko+barn+cala cu okio+barn+cala; pi deca+cala cu oiko = di 2016 Good, bad, bad feeding?

JS was basic as hell, pi=cala and chum=gel, over and over, really cool, = bad feeding

3.3.4. salmon stom fullness

Discussion note - chum gfi a lil’ higher than pink, cause of prey choice and/or stom. size?

It seems GFI pairs with overlap again, dive into more detail in the discussion + concl. ch.

3.3.5 juvenile salmon condition

Higher in 2015 than in 2016 (fish lil’ bigger that year too), overall pretty poor though…

GFI did not translate into higher condition, fish most likely do not linger in these areas and/or it’s so dynamic over time that the conditions fluctuate (good feeding seems to be lucky)

3.3.6 diet diversity of salmon

Overlap and richness higher in 2015 than 2016 (NEED APPENDIX TABLE BY DATE)

More empties in 2016 too. Seven compared to only 1 in 2015. 4 pink empty, in JS 2016!

Richness is higher for pink than chum and higher in DI than JS. JS=same, DI=high 2015.

**3.4 Discussion**

#### Interannual variability

2015 > 2016 in most regards!

3.4.3 predator and prey sizes

Need to code something that looks more in depth into size of prey and whatnot… \*\*\*\*\*