

(2

Formally we calculate these by

10 binning transport in fallinty classes,

Detaking tidal average (3) and integrating
in our incoming to ordering fallinty

Various Etanic Mac Cready 2011 He)

Sign Convention

Qin + Qx: positive

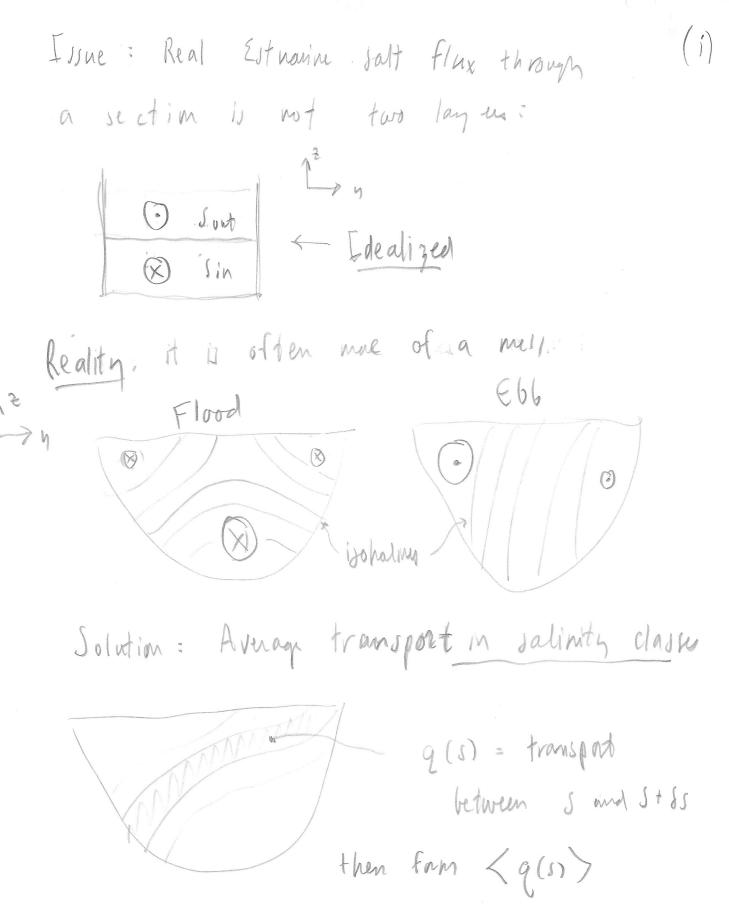
Qood: negative

Holume and Jato budgels lose all sportial structure, greatly simplify the flux is. dy = Qin + Qout + Qa (*) VOL d (s ov) = Qin Sin + Qood Sout (Sin = Sout + DS Quit = - QIN - QZ from (*) where $\Delta S = S_{in} - S_{out}$ dt (s dv) = Qur Jourt + Qm DS - Qm Jourt - Q & Jourt Qin = Sout QR + As at (Ss dV) Knudsen Relation" - Qod = Sin Qn + Is de (sulv) (1900) often as « Sin, out so Qin, out >> QR ex ch'auga fhow (like [u"] >> u)



Etimate Qin, out from knowledge of Sin, out & Qr

* much lasin than measuring Qin, out!



thun integrale over all salinity
chasses for which $\langle q(s) \rangle$ is

of a given sign.

so $\int \langle q \rangle ds = Q_{in}$ Similarly $\int \langle sq \rangle ds = S_{in}$ Qin

Similar for Quod on Sout

This is the "TOTAL Exchange Flow" a TEF Mac Creaty (2011) Ilo