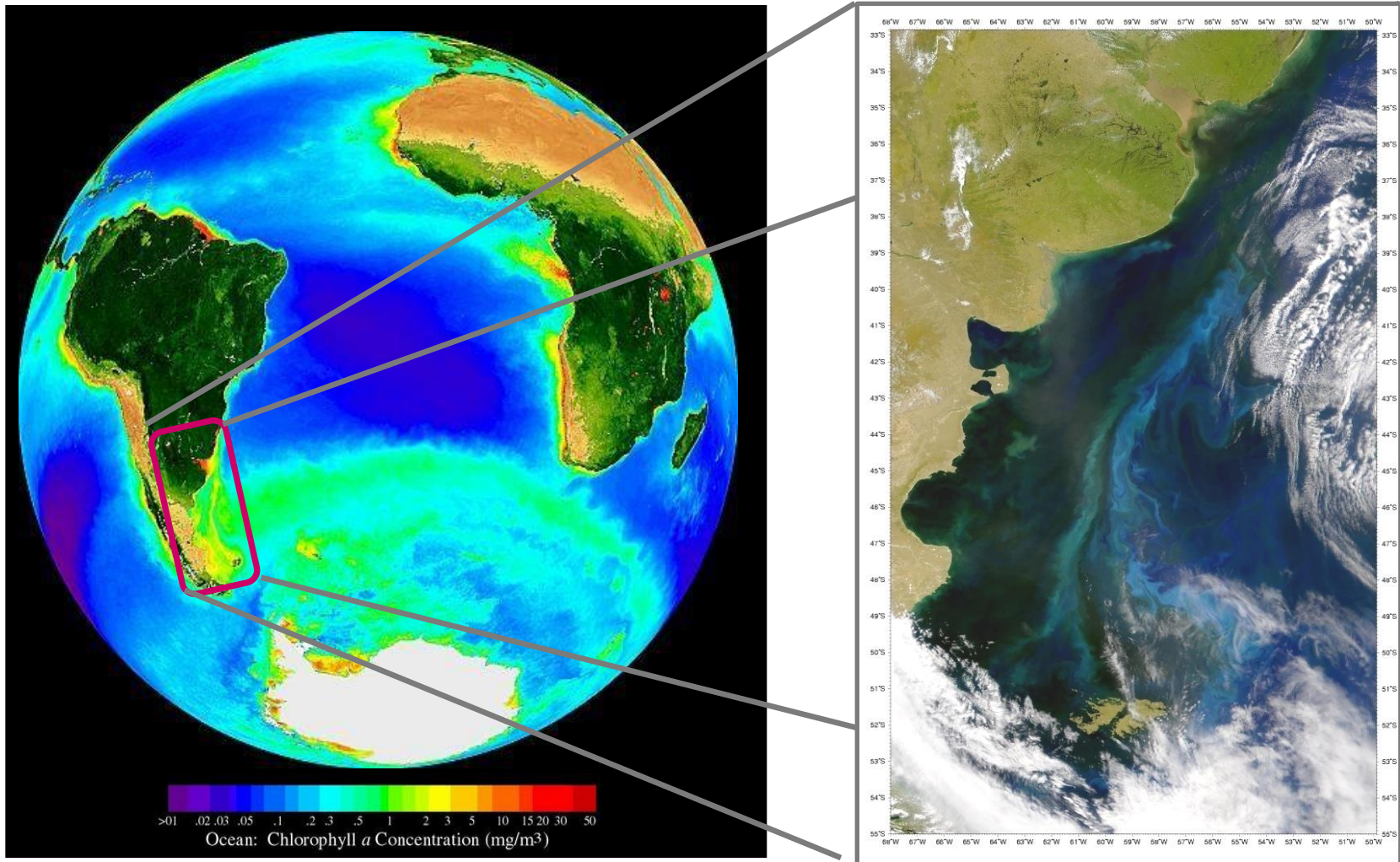


Blooms in the Argentine Sea

Dogliotti, A.I.

IAFE (CONICET/UBA), Argentina



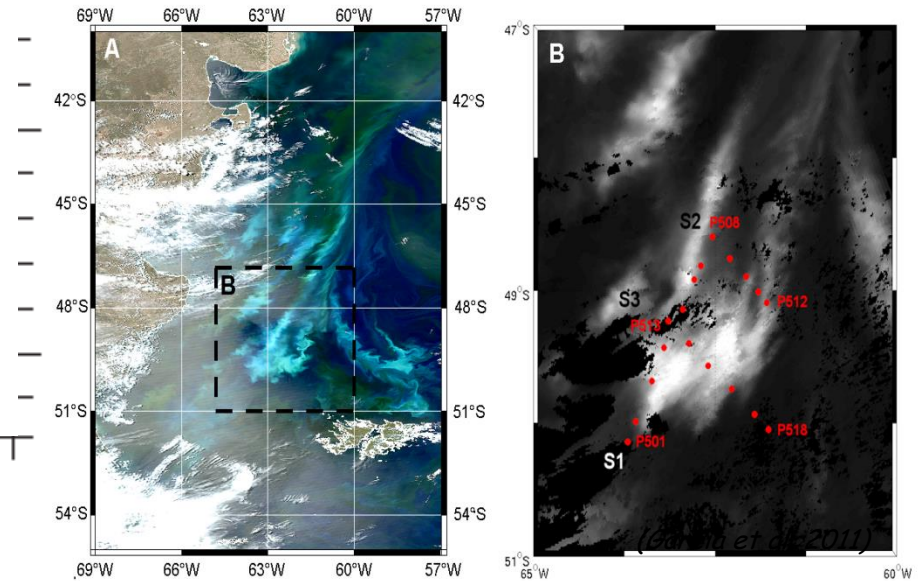
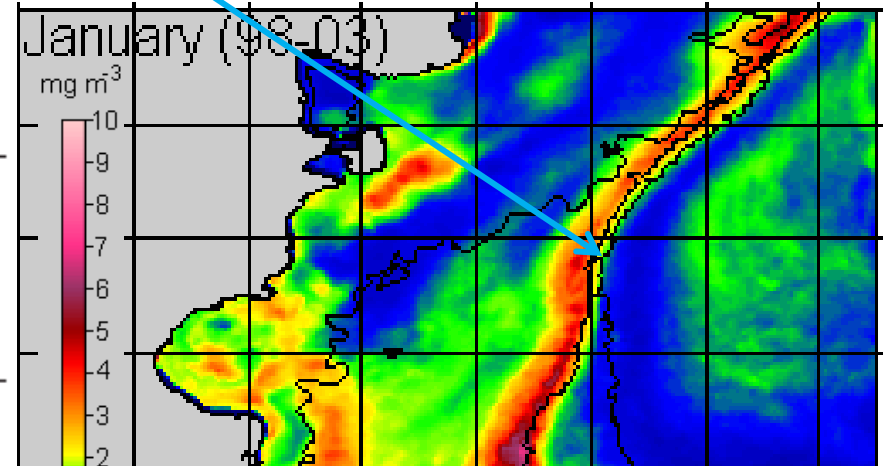
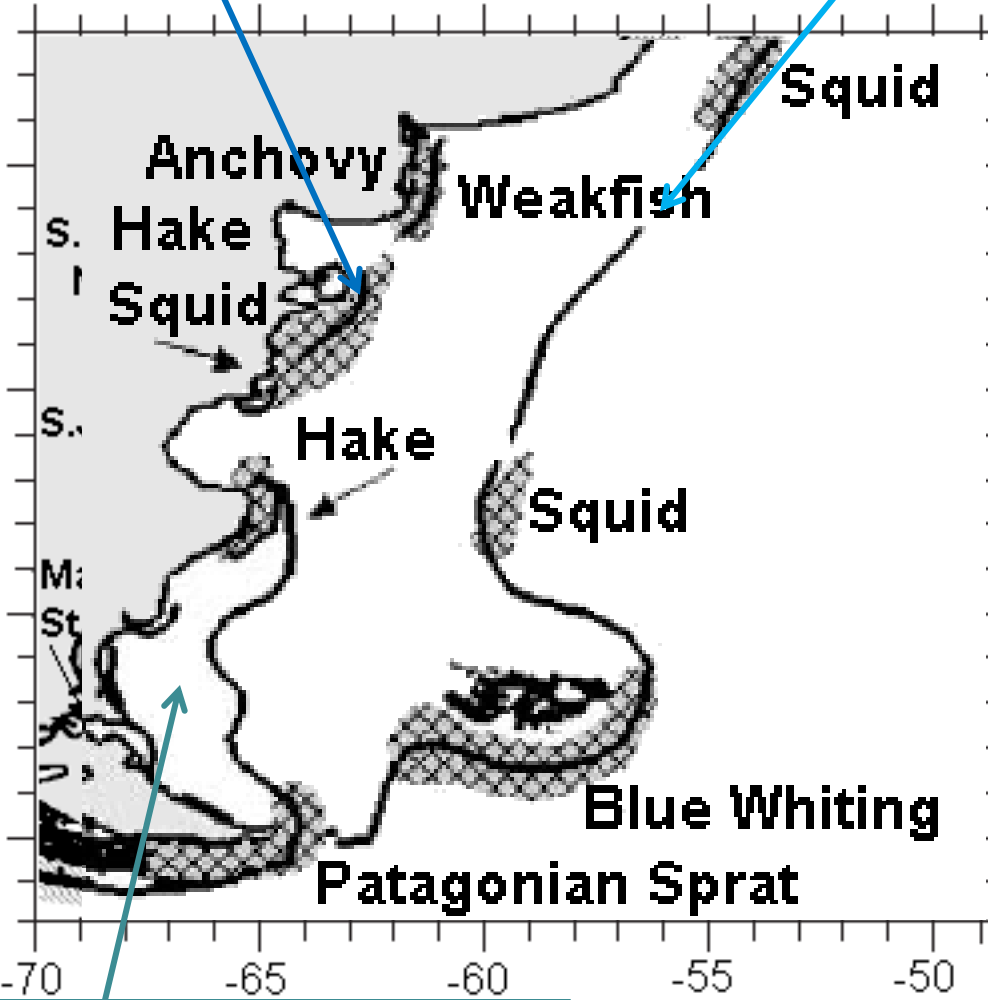
Phytoplankton blooms (high Chl-a) are mainly associated with frontal systems

Valdes P.

(Squid and fish spawning areas, Acha et al. 2004)

Shelf-break

Diatoms and/or dinoflagellates
Coccolithophores (Dec)



Garcia et al. 2008)

SHELF-BREAK

40-48°S

Nov-2004: 2–17 mg m⁻³ Chl-a -> diatoms (2-10 μm) and nano-phytoflagellates (<20μm)
(Garcia et al. 2008).

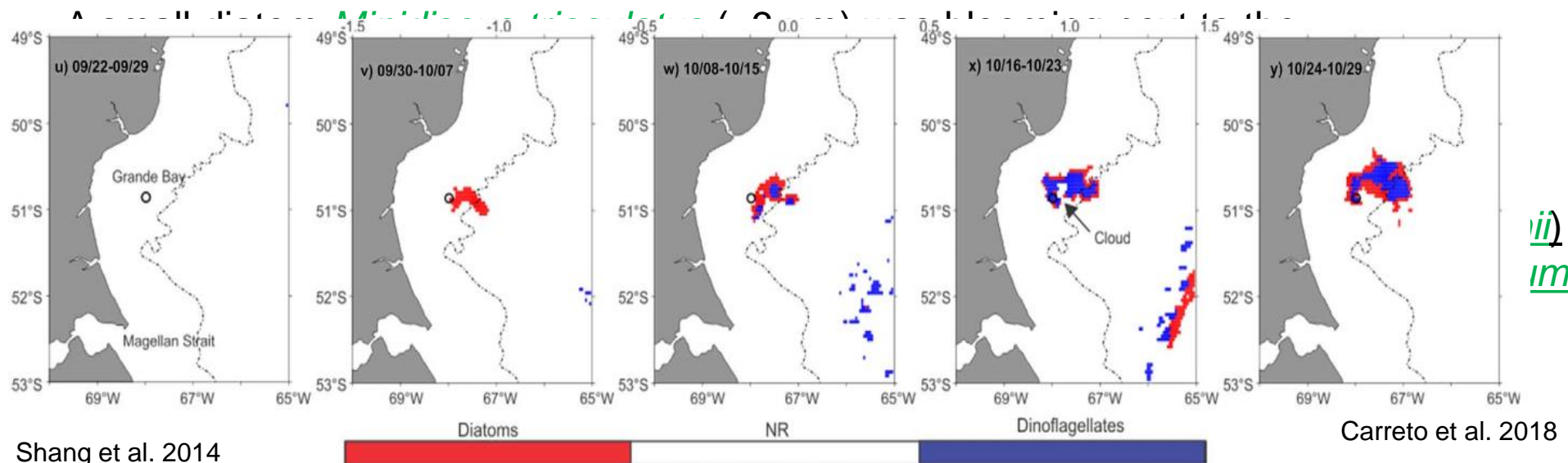
47°S

In Spring 2005: 7.7 mgm⁻³ Chl-a-> diatom *Thalassiosira bioculata* (>20–200 μm) ~90%
4.3·10⁶ cells L⁻¹ (Carreto et al. 2016)

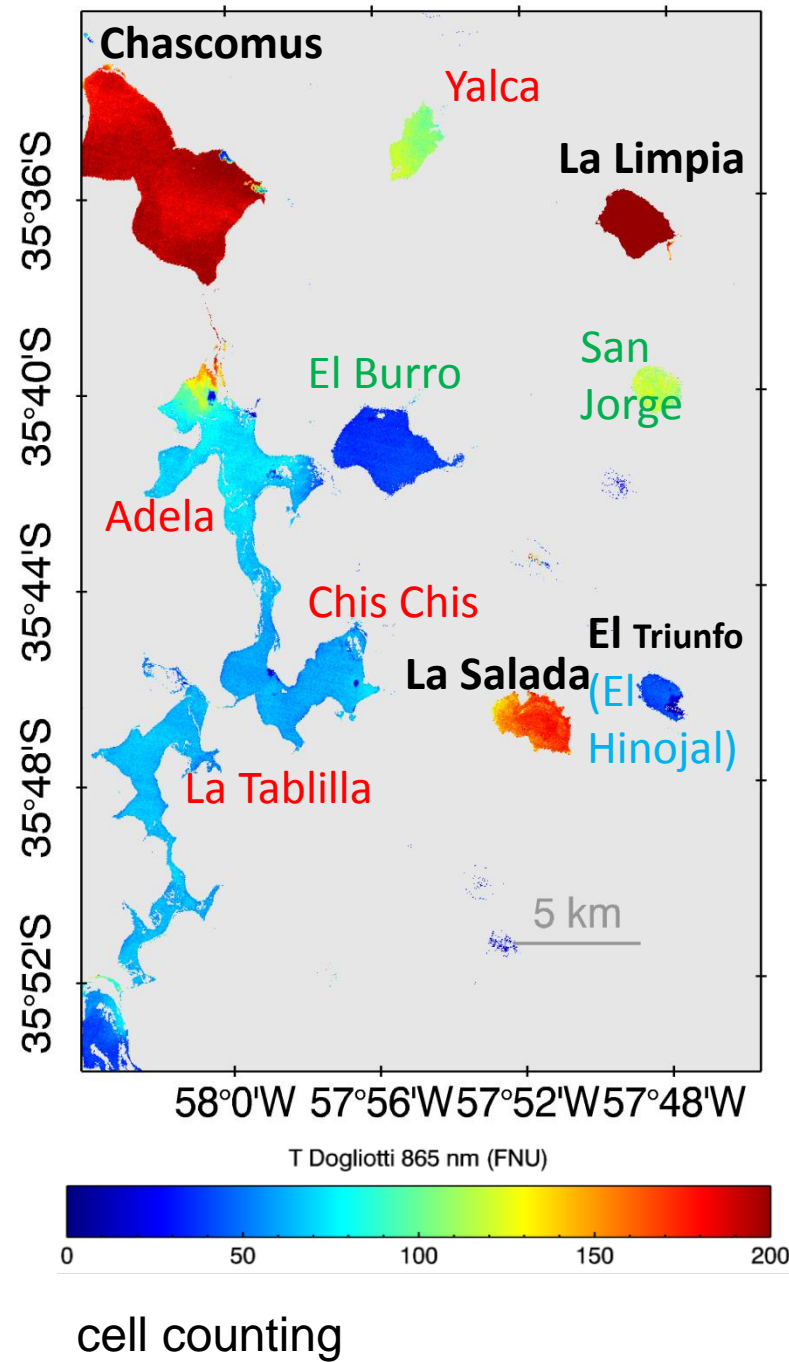
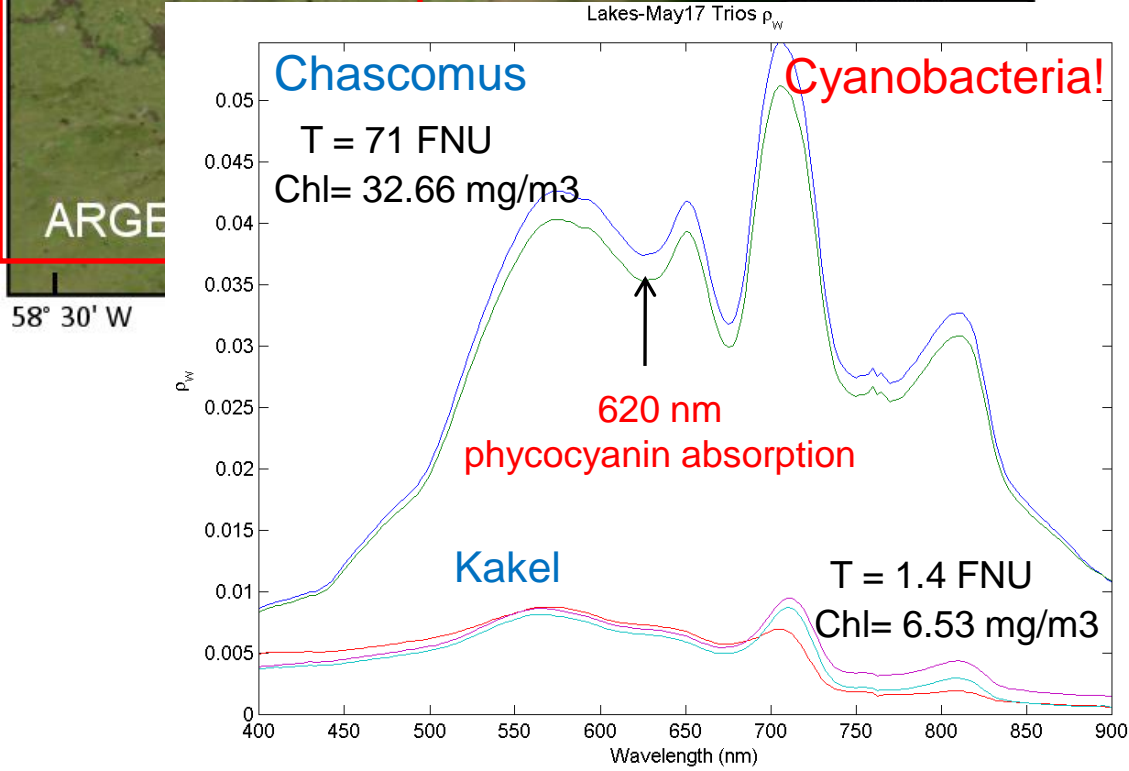
GRANDE BAY

Early summer 2003: 19 mgm⁻³ Chl a-> diatom *Chaetoceros debilis* (3·10⁶ cells L⁻¹)
(Almandoz et al., 2007; Schloss et al.,2007).

Spring 2005: 28.6 mgm⁻³ Chl-a -> dinoflagellate *Prorocentrum minimum* (10–20 μm),
10·10⁶ cells L⁻¹



iii)
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Gaps...

- Lack of field campaigns in the shelf
- Lack of interaction with groups that do pigment analysis (HPLC)

Next steps...

- Continue sampling lakes (easier and cheaper)
- Include other type of quantification to supplement cell counting, like phycocyanin and phycoeritrin fluorescence