

6 METABARCODING DATASETS:

3 Temporal Series

2 Oceanographic campaigns

1 European coastal sea sampling project

539,546 metabarcodes

Homogenisation workflow

**Step 1: remove multicellular taxa,
filter by $\geq 80\%$ identity**

**Step 2: taxonomic assignment
PR2 v4.12.0 (eval 0.01)**

**Step 3: filter by sequence length
 ≥ 200 bp**

**Step 4: contamination check
SILVA v138**

343,165 metabarcodes

**Non-assigned taxa
=
taxonomic unknowns
(at a given taxonomic rank)**

Diversity and abundance

**Sequence Similarity Network
(100% identity, coverage $\geq 80\%$)
12,619 CCs**

**Spatiotemporal distribution
of unknown CCs**