

**‘Biogeochemical fluxes and fate of diazotroph derived nitrogen in the food web after a phosphate enrichment: Modeling of the VAHINE mesocosms experiment’**

Gimenez et al.

**Referee comments**

The manuscript has improved considerably in response to the referee comments during revision, hence I recommend publication of this manuscript by Gimenez et al. in Biogeosciences after the following technical revisions:

- Correction of scientific notation from  $1.5 \cdot 10^{-4}$  to  $1.5 \times 10^{-4}$ .
- Correction of stable isotope ratio notation to  $\delta^{15}\text{N}$  consistently throughout manuscript.
- Revision and reduction of use of brackets, particularly for citations and those including ‘this issue’, to improve readability.
- Revision of citations for ‘this issue’ for consistency throughout manuscript as some cited manuscripts from this Special Issue were not identified as such.
- Revision of references section to ensure italics and sub/superscripts are correct e.g. ‘ $\text{N}_2$ ’, ‘ $^{15}\text{N}_2$ ’, and ‘ $\text{O}_2$ ’.
- Language has improved considerably in the revised manuscript however some minor errors are still present hence proof-reading is recommended by authors (unless this will be done by BG during publication process).
- P3, line 65: It is unclear what is meant by ‘diversity’ here and this term should be revised/clarified (see also comments from Referee #2 on BGD manuscript).
- P6, lines 192 – 194: Addition of citation for the choice of ratios between BAC/HNF/CIL abundances (i.e. HNFcell, BACcell, CILcell).