

Evolution of the source of storm particulate organic matter exported along forested nested catchment.? Impact of granulometry and climate

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Discussions and message to carry back

• In the 12Ha catchment, the POM mainly derived from litter, wetland A and forest O horizons. Their relative contributions changed along the particles size continuum and from one event to another. • At the scale of the headwater catchment, the sources of POM changed with an increasing proportion of stream bed-derived POM downstream. Going downstream seems to decrease the differences along the particles size continuum.

• The composition of POC changed along the particle size continuum: different fractions from different sources. • Investigation at the molecular scale using THM-GC-MS seems to provide fruitful data to determine the sources of POM transferred along nested catchments.

2. Second PCA treatment based on the distribution of plant-derived markers Individuals: End-members Variables: Relative proportion of the eight most abundant PHE and plantderived FA.



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