

**Lab Journal: analysis of an Atlantic clay sediment sample near the
Canary Islands**

E. de Bie,¹ H. Hildebrand,¹ and J. Gerlagh¹

¹*Institute for Marine and Atmospheric Research Utrecht,
Department of Physics,
Faculty of Science,
Utrecht University*

I. INTRODUCTION

First, we shall discuss the points we are to research before starting our research plan. In literature, we shall attempt to find:

1. the precipitation rate for this portion of the Atlantic, to determine the time resolution in our sample;
2. perturbation of the ocean floor through natural or human mechanisms;
3. concentration of microplastics, as an indication of the increase in nanoplastic concentration;
4. amounts of detritus, and whether this would contaminate the measurement;
5. protocols for extraction of the plastics from the clay.

From this, we shall construct a protocol for our measurements and from there, we shall find the

tools we may need to acquire.

In general we split these into three categories: items 1 and 2 (to be researched by Joost) describe the context of the samples, items 3 and 4 (to be researched by Has) describe the contaminants, and item 5 (to be researched by Eva) describes the practical steps to be taken.

A. Question Answers

A.1.

njhtjut

A.2.

A.3.

A.4.

A.5.