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**Ocean Sampling Day(s): Monitoring the Anthropogenic Impact
on Microbial Communities in Coastal Marine Ecosystems**

Coastal zones are a thin boundary between mainland and ocean waters. They are highly dynamic environments receiving a high load from terrestrial environments, natural or human-based. This makes them highly interesting ecosystems for marine microbial studies. The Ocean Sampling Days (OSDs) were initiated by the EU “Ocean of Tomorrow” project Micro B3 (Marine Microbial Biodiversity, Bioinformatics, Biotechnology) to obtain a global snapshot of marine microbial biodiversity and function. OSDs are simultaneous, collaborative, global mega-sequencing campaigns to analyze marine microbial community composition and functional traits on a single day. On June 21st 2014, 2015 and 2016 scientists around the world collected around 350 ribosomal DNA (rDNA) amplicon datasets and metagenomes plus a rich set of environmental metadata. Standardized procedures, including a centralized hub for laboratory work and data processing, assured a high level of consistency and data interoperability. Since 2015 OSD is accompanied by the Citizen Science campaign MyOSD to enhance the marine microbial community snapshot resolution of the OSD and increase environmental awareness of the general public. This seminar discusses the results obtained within this framework and provides future insights on anthropogenic influences and control factors of coastal microbial communities.

Kopf A et al. (2015) The ocean sampling day consortium. *GigaScience* 4:27

Date: Thursday, 17 November 2016, 1:15 pm
Venue: GEOMAR, Düsternbrooker Weg 20, Lecture Hall
Host: Prof. Dr. Ute Hentschel Humeida