atmosphere

Supplementary Materials:

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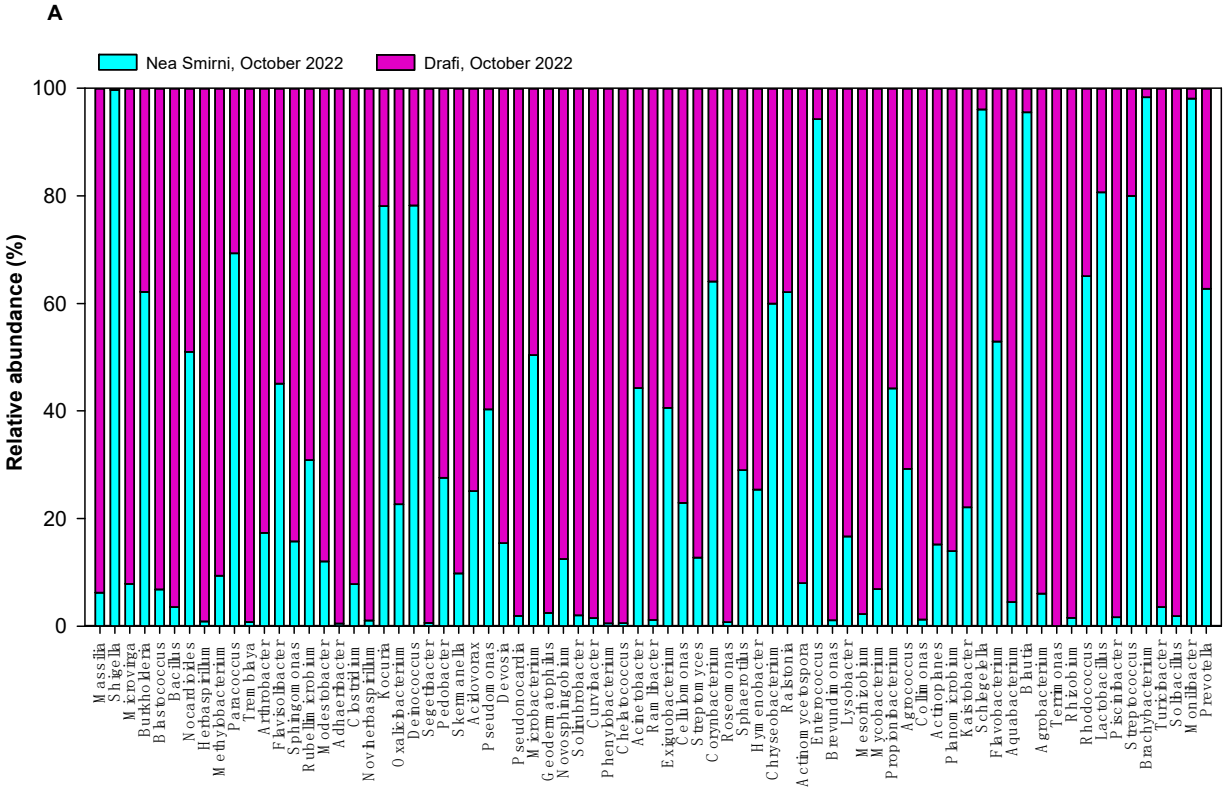

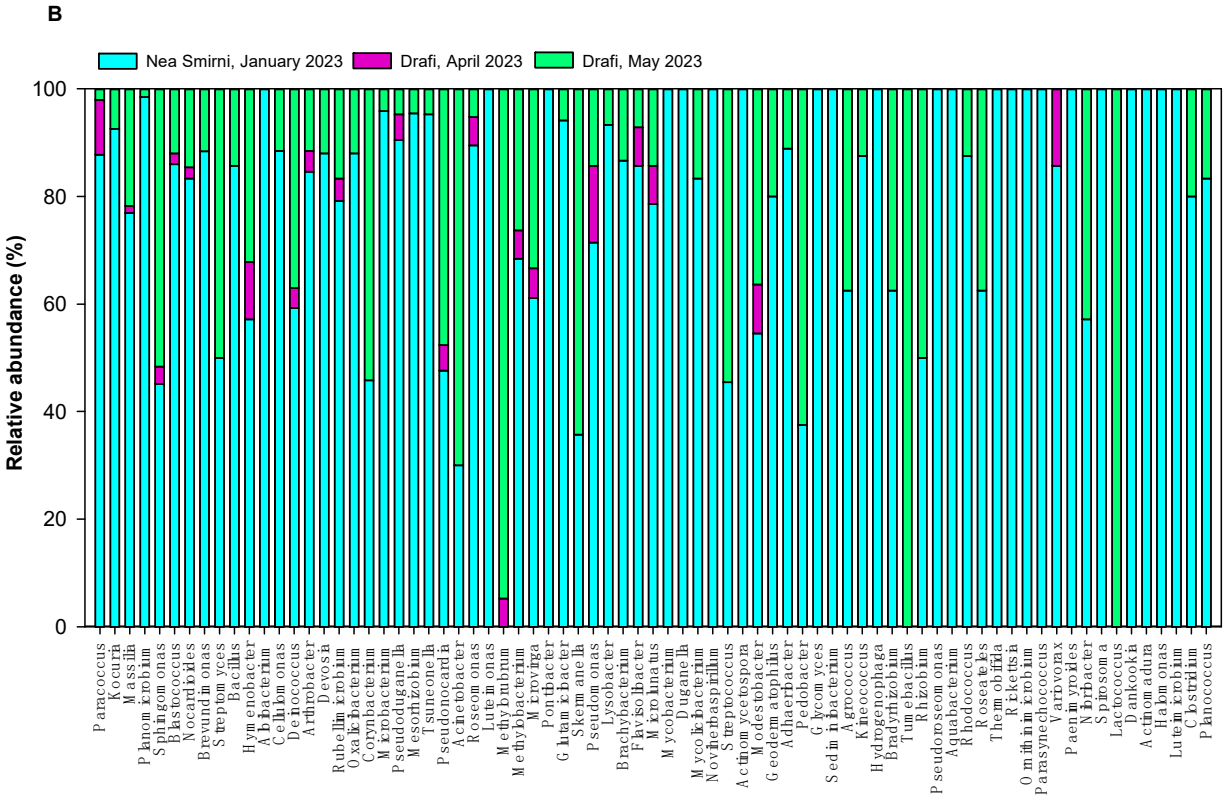

Figure S1. Relative abundance of top 75 airborne bacterial genera in Drafi (D) and N. Smirni (NS), in 2022 (A) and 2023 (B).

Table S1. Common bacterial genera and unique genera in the air and sea water.

Common Genera	*Acidovorax, Acinetobacter, Actinomyces, Actinomycetospora, Actinoplanes, Adhaeribacter, Agrobacterium, Alcaligenes, Alteromonas, Aminobacter, Anoxybacillus, Aquabacterium, Arthrobacter, Aureimonas, Bacillus, Belnapia, Blastococcus, Bosea, Bradyrhizobium, Brevundimonas, Caulobacter, Cellulomonas, Cellulosimicrobium, Cellvibrio, Chryseobacterium, Clostridium, Corynebacterium, Cryocola, Dankookia, Deinococcus, Delftia, Devosia, Dietzia, Duganella, Enterobacter, Enterococcus, Exiguobacterium, Flavisolibacter, Flavobacterium, Geobacillus, Geodermatophilus, Georgenia, Gilliamella, Glutamicibacter, Halomonas, Herbaspirillum, Hydrogenophaga, Hymenobacter, Janthinobacterium, Klebsiella, Knoellia, Kocuria, Kurthia, Labedella, Luteimicrobium, Luteimonas, Lysobacter, Massilia, Mesorhizobium, Methylobacterium, Methyloceanibacter, Methylocella, Microbacterium, Microlunatus, Micromonospora, Microvirga, Modestobacter, Mycobacterium, Mycolicibacterium, Neobacillus, Neorhizobium, Nesterenkonia, Nibribacter, Nitrosospira, Nocardioides, Noviherbaspirillum, Novosphingobium, Ornithinibacter, Oxalicibacterium, Paenibacillus, Paenimyroides, Paenisporosarcina, Pantoea, Paracoccus, Parasynechococcus, Parviterribacter, Pedobacter, Petrimonas, Phenylobacterium, Photobacterium, Pigmentiphaga, Piscinibacter, Planococcus, Planomicrobium, Pontibacter, Prevotella, Pseudomonas, Pseudonocardia, Pseudoxanthomonas, Psychrobacter, Ramlibacter, Reyranella, Rhizobacter, Rhizobium, Rhodobacter, Rhodococcus, Roseateles, Roseomonas, Rubellimicrobium, Rufibacter, Skermanella, Solirubrobacter, Sphingobium, Sphingomonas, Sphingosinicella, Staphylococcus, Stenotrophomonas, Streptococcus, Streptomyces, Terrimonas, Thermobifida, Thermomonas, Tumebacillus, Turicibacter, Undibacterium, Variovorax, Weissella.*
Unique marine genera	*Acetivibrio, Actibacter, Actibacter, Actibacterium, Aequoribacter, Aeromonas, Aestuariibacter, Aestuariibius, Aestuariivita, Agarivorans, Agathobacter, Ahrensia, Albibacillus, Alexandriicola, Algibacter, Algicola, Algimonas, Aliiglaciecola,*

Aliikangiella, Aliiroseovarius, Aliiruegeria, Aliishimia, Aliivibrio, Alisedimentitalea, Alkalihalobacillus, Altererythrobacter, Amaricoccus, Ammoniphilus, Amorphus, Amylibacter, Anderseniella, Antarcticimicrobium, Antarctobacter, Aquimarina, Aquipuribacter, Arcticibacter, Arenibacter, Arenibacterium, Arenicella, Aurantiacibacter, Aureicoccus, Aureimarina, Bacteroides, Beutenbergia, Blastomonas, Boseongicola, Bremerella, Buttiauxella, Bythopirellula, Caenimonas, Caldimonas, Candidatus Aquiluna, Candidatus Atelocyanobacterium, Candidatus Hepatobacter, Candidatus Nitrosoarchaeum, Candidatus Nitrososphaera, Candidatus Pelagibacter, Candidatus Phaeomarinobacter, Candidatus Puniceispirillum, Candidatus Thioglobus, Capilliphycus, Carnobacterium, Celeribacter, Cellulophaga, Christiangramia, Cobetia, Coccinimonas, Coccinistipes, Cocleimonas, Cognatiyoonia, Colwellia, Comamonas, Congregibacter, Constantimarinum, Coraliihabitans, Coraliomargarita, Croceibacter, Croceibacterium, Croceimarina, Croceimicrobium, Croceitalea, Croceivirga, Cytobacillus, Defluviimonas, Desulfobacula, Desulforhopalus, Desulfosarcina, Desulfosediminicola, Desulfotalea, Diaphorobacter, Dokdonia, Domibacillus, Donghicola, Empedobacter, Enterovibrio, Epibacterium, Erwinia, Erythrobacter, Eudoraea, Euzebyella, Falsirhodobacter, Falsiruegeria, Flagellimonas, Flaviramulus, Flavococcus, Formosa, Fuscovulum, Gayadomonas, Gillisia, Gilvibacter, Glaciecola, Granulosicoccus, Haematobacter, Haemophilus, Halalkalibacter, Halioglobus, Haliscomenobacter, Halobacillus, Haloferula, Halomarinibacterium, Halovibrio, Hanstruepera, Heliomarina, Hellea, Heyndrickxia, Hirschia, Hoeflea, Hyphomicrobium, Hyphomonas, Iamia, Ichthyenterobacterium, Idiomarina, Ilumatobacter, Ilyobacter, Imtechium, Jannaschia, Jeotgalibaca, Jindonia, Ketogulonicigenium, Kineobactrum, Kordia, Kribbella, Kyrtuthrix, Labrenzia, Lacinutrix, Lacipirellula, Leisingera, Lentibacter, Lentilitoribacter, Lentimonas, Lentisphaera, Leptothoe, Leucothrix, Lewinella, Lichenibacterium, Limimaricola, Limnobacter, Litoreibacter, Litoribacillus, Loktanella, Luteolibacter, Lutibacter, Lutimaribacter, Lutimonas, Maliponia, Mammaliicoccus, Maribacter, Maribellus, Maribrevibacterium, Maricaulis, Marimonas, Mariniblastus, Marinicella, Mariniflexile, Marinirhabdus, Marinobacter, Marinomonas, Marinovum, Marivita, Marivivens, Marixanthomonas, Meridianimaribacter, Meridianimarinicoccus, Mesobacillus, Mesobacterium, Mesoflavibacter, Mesonia, Metabacillus, Methanosarcina, Methyloversatilis, Microbulbifer, Motiliproteus, Muriicola, Mycolicibacillus, Namhaeicola, Neiella, Neolewinella, Neptuniibacter, Neptunomonas, Nereida, Niallia, Nigerium, Nisaea, Nitrosopumilus, Nodosilinea, Nonlabens, Nunduva, Oceanicola, Oceaniserpentilla, Oceanobacterium, Oceanospirillum, Octadecabacter, Olleya, Oricola, Pacificitalea, Pacificoceanicola, Palleronia, Paraclostridium, Parasphingopyxis, Parasphingorhabdus, Pelagibius, Peptacetobacter, Perspicuibacillus, Phaeobacter, Phocaeicola, Planctobacterium, Planktomarina, Planktosalinus, Planktotalea, Polaribacter, Pontibacterium, Ponticoccus, Pontimicrobium, Pontimonas, Porphyromonas, Portibacter, Primorskyibacter, Prochlorococcus, Propionigenium, Proteiniclasticum, Pseudahrensia, Pseudalkalibacillus, Pseudenhygromyxa, Pseudidiomarina, Pseudoalteromonas, Pseudohaliea, Pseudomarivita, Pseudoneobacillus, Pseudooceanicola, Pseudooctadecabacter, Pseudophaeobacter, Pseudoprimorskyibacter, Pseudorhizobium, Pseudorhodoplanes, Pseudoroseicyclus, Pseudoroseobacter, Pseudoruegeria, Pseudosulfitobacter, Pseudotenacibaculum, Pseudovibrio, Pseudozobellia, Psychromarinibacter, Psychromonas, Psychroserpens, Psychrosphaera, Qipengyuania, Rahnella, Reinekea, Rhizorhabdus, Rhodovulum, Risungbinella, Romboutsia, Roseibacterium, Roseibium, Roseiconus, Roseicyclus, Roseimaritima, Roseivirga, Roseivivax, Roseobacter, Roseovarius, Rubripirellula, Rubritalea, Rubrobacter, Ruegeria, Saccharophagus, Sagittula, Salegentibacter, Salinimicrobium, Salinimonas, Salipiger, Sedimentitalea, Segatella, Selenomonas, Seohaeicola, Seongchinamella, Serratia, Shewanella, Shimia, Sinisalibacter, Stappia, Stieleria, Stutzerimonas, Sulfitobacter, Synechocystis, Taeseokella, Tamlana, Tateyamaria, Tenacibaculum, Tepidibacter, Tepidibaculum, Terribacillus, Thalassobacter, Thalassobaculum, Thalassobius, Thalassococcus, Thalassolituus, Thalassomonas, Thalassospira, Thalassotalea, Thalassovita, Thaumasiovibrio, Thermostaphylospora, Thetidibacter, Thioclava, Tritonibacter, Tropicibacter, Tropicimonas, Trujillonella, Ulvibacter, Umboniibacter, Vibrio, Winogradskyella, Yoonia, Zeaxanthinibacter.

Unique airborne genera	*Actinomadura, Actinophytocola, Actinotalea, Aerococcus, Aeromicrobium, Aetherobacter, Afipia, Aggregatibacter, Aggregicoccus, Agrococcus, Albibacterium, Amnibacterium, Amycolatopsis, Anaerococcus, Arcobacter, Arenimonas, Aridibacter, Atopostipes, Aurantimonas, Azohydromonas, Azospirillum, Beijerinckia, Bifidobacterium, Bifissio, Blautia, Bordetella, Brachybacterium, Brevibacillus, Brevibacterium, Burkholderia, Chelatococcus, Chitinolyticbacter, Chroococcidiopsis, Citricoccus, Cloacibacterium, Cohnella, Collimonas, Conexibacter, Corallococcus, Cronobacter, Cryptosporangium, Cupriavidus, Curtobacterium, Curvibacter, Cystobacter, Dactylosporangium, Desemzia, Dokdonella, Enhydrobacter, Eubacterium, Ferruginibacter, Finegoldia, Flavitalea, Flectobacillus, Frankia, Friedmanniella, Frigoribacterium, Fusicatenibacter, Fusobacterium, Gemmobacter, Glycomyces, Granulicatella, Herbiconiux, Jeotgalicoccus, Kaistobacter, Kallotenue, Kineococcus, Kineosporia, Kofleria, Labrys, Lactobacillus, Lactococcus, Lautropia, Lechevalieria, Leifsonia, Leptolyngbya, Lichenihabitans, Limnohabitans, Lysinibacillus, Megamonas, Methylibium, Methylophaga, Methylorubrum, Methylosinus, Methylovorus, Micrococcus, Microcoleus, Mobilicoccus, Monilibacter, Motilibacter, Mucilaginibacter, Myxococcus, Naasia, Nakamurella, Niabella, Nitratireductor, Nitrobacter, Nitrosovibrio, Nitrospira, Nocardia, Okibacterium, Oligoflexus, Ornithinimicrobium, Owenweeksia, Parasegetibacter, Pelomonas, Phyllobacterium, Phytohabitans, Piscicoccus, Pleurocapsa, Polyangium, Polymorphospora, Prauserella, Propionibacterium, Pseudaminobacter, Pseudoduganella, Pseudofulvibacter, Pseudolabrys, Pseudorhodoferax, Pseudoroseomonas, Pseudosporangium, Psychrobacillus, Ralstonia, Rathayibacter, Rheinheimera, Rhodocytophaga, Rhodopseudomonas, Rickettsia, Roseococcus, Rothia, Rubrivivax, Rugamonas, Ruminococcus, Sabulibacter, Salana, Salinicoccus, Sanguibacter, Sarcina, Schlegelella, Sediminibacterium, Segetibacter, Serinicoccus, Shigella, Simplicispira, Solibacillus, Sphaerobacter, Sphaerotilus, Spirirestis, Spirosoma, Sporosarcina, Starria, Steroidobacter, Streptosporangium, Subtercola, Tersicoccus, Tessaracoccus, Tetrasphaera, Thermocrispum, Thiothrix, Tremblaya, Tsuneonella, Vagococcus, Williamsia, Xylophilus, Zobellella.*