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Discussion and Conclusion; References; 4 Mixing in the Deep Waters of the Western Mediterranean; 4.1. Introduction; 4.2. Evolution of the Deep Waters; 4.3. Mixing Estimates
4.4. Mixing Processes 4.5. Discussion; References; 5 The 2009 Surface and Intermediate Circulation of the Tyrrhenian Sea as Assessed by an Operational Model; 5.1. Introduction; 5.2. Model Description; 5.2.1. The Numerical Model; 5.2.2. Boundary Conditions and Hindcast Procedure; 5.3. The Seasonal Variability of the Circulation During 2009; 5.3.1. The Surface Circulation; 5.3.2. The Intermediate Circulation; 5.4. Water Masses and Transports; 5.5. Summary; Appendix; References; 6 The Eastern Mediterranean Transient: Evidence for Similar Events Previously?; 6.1. Introduction
6.2. Lessons from the Actual EMT6.3. Historic T-S Signatures in Comparison with Potential Effects of EMT-Type Events; 6.4. Discussion and Conclusion; References; 7 Deep-Water Variability and Interbasin Interactions in the Eastern Mediterranean Sea; 7.1. Introduction; 7.2. Methodology; 7.3. Basinwide and Interbasin Variability; 7.4. Intrabasin Variability; 7.5. Simple Statistics; 7.6. Discussion and Conclusions; References; 8 An Internal Mechanism Driving the Alternation of the Eastern Mediterranean Dense/Deep Water Sources; 8.1. Introduction; 8.2. Datasets and Model Description
8.2.1. Data Series 8.2.2. Model Description; 8.2.3. Atmospheric Forcing; 8.2.4. River Discharge Data; 8.2.5. Boundary Conditions; 8.2.6. Model Run; 8.3. Results and Discussion; 8.3.1. Evolution of the Hydrological Characteristics; 8.3.2. Evolution of the Atmospheric Forcing; 8.3.3. Salinity Lateral Redistribution; 8.3.4. The Role of Lateral Advection; 8.3.5. Flows through Straits-Salinity and Heat; 8.4. Summary and Conclusions; References; 9 Thermohaline Variability and Mesoscale Dynamics Observed at the Deep-Ocean Observatory E2M3A in the Southern Adriatic Sea; 9.1. Introduction
9.2. Datasets and Methods

Sommario/riassunto

Surface, intermediate, and deep-water processes and their interaction in time and space drive the major ocean circulation of the Mediterranean Sea. All major forcing mechanisms, such as surface wind forcing, buoyancy fluxes, lateral mass exchange, and deep convection determining the global oceanic circulation are present in this body of water. Deep and intermediate water masses are formed in different areas of the ocean layers and they drive the Mediterranean thermohaline cell, which further shows important analogies with the global ocean conveyor belt. The Mediterranean Sea: Temporal Va

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