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On the radiative Components of the heat Budget over the Sea

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 $Q_{R} = G \frac{1}{2} + G \frac{1}{2} + L \frac{1}{2} + L \frac{1}{2}$

relation : $Q_R = G \downarrow + G \uparrow + L \downarrow + L \uparrow$ where : G and G ↑ are the incident and reflected solar radiation respectively ,L ↓ is the long-wave atmospheric radiation and L1the long-wave radiation of the sea plus the atmospheric radiation reflected by the sea itself. The hourly values of G varied between 417.4 W/m² (August 20th) and 279.7 W/m² (August 27th). The difference is mainly the result of a different amount of clouds;during the 20th August the sky was completely clear while on 27th day at morning the sky was almost completely clear while on 27th day at morning the sky was almost completely clear while on 27th day at morning the sky was almost completely clear while on 27th day at morning the sky was almost completely clear those of G were 383.1 W/m² and those of G t25.7 W/m². The variations of the global incident mean hourly fluxes were more marked than those of the global reflected solar radiation as showed by the values of the standard dev.. Therefore a great amount (about 94 %) of the solar radiation penetrating the sea increases the water temperature and therefore the long-wave flux outgoing the sea surface. The atmospheric radiation was always smaller, expecially with clear sky, than the long-wave coming from the searthe first component varied between 345.8 W/m² and 354.8 W/m² while the L t va lues were between 413.8 W/m² and 421.0 W/m² ron average during the whole period the yalues of the incident and outgoing long-wave fluxes were 351.3 W/m² and 421.0 W/m² reneverively; the upward flux was more unchangeable. The measured values of atmospheric radiation made to West of 320 M/m². During the measurement period the average short-wave radiation balance, Q_g, was 357.4 W/m² while the long-wave balance, Q₁, was negative (-69.7 W/m²) rso the average Q_b value was positive and equal to 287.7 W/m². Thes values emphasize the primary importance which the radiative components have in determining the heat balance of the sea surface in August in the central Sardinian and Tyrrhenian