

Emergence Success of Natural nests for Olive ridley on sandy beach, Kadongalay Island in Myanmar

Cho Hla Aung , Sea Turtle Conservation Section, Department of Fisheries ,
Ministry of Livestock and Fisheries ,Yangon , Myanmar .

Keywords : Kadongalay Island , Natural nests on pure sand bank(White siliceous sand) , Oliveridley (*Lepidochelys olivacea*) , temperature incubation period ,emergence success , sand temperature of clutches, Digital thermometer and measuring tape .

At the time of Maxwell's report (1911), the Kadongalay Island (15° 49' N , 95° 13' E) was existence . This island formed with deposit sand at the mouth of Bogale River , Ayeyawaddy delta in gulf of Bengal . Kadongalay Island is (5) miles length and three quarters mile in breath, turtles laying the eggs on this island from September to March (Seasonal time) yearly. Department of Fisheries was undertaking for sea turtle conservation and research started on Kadongalay Island in 1998. Kadongalay Island has found only oliveridley (*Lepidochelys olivacea*) attended to this island for nesting. About (120) nests could be found each year, along the sand beach in seasonal. All nests have being preserved naturally. Nesting female turtles lay the eggs on the sand bank (white siliceous sand), three different kind of places as lower slope, upper slope and dune. Data was recorded that nest location and date, and then watched until the time of hatching out. After the hatchlings were hatch out from clutches, and then examine and record the egg hatching rate and other parameters immediately. Data Collected for these clutches such as temperature, incubation period, emergence success and clutch sizes from three different areas. The results are showing that average temperature was 29.3 HC, 51 days of incubation period and 96.17% of emergence success in dune. Average temperature was 28.53 HC, 50 days of incubation period and 89.8% of emergence success in upper slope. Average temperature was 27.4 HC, 49 days of incubation period and 95% of emergence success in lower slope. Digital thermometer and measuring tape were used for this research. All clutches size are not differ from each other, clutch neck depth was 7 to 8 inches, diameter of clutch base was 9 to 10 inches, an average total depth of clutches was 16 to 18 inches .Nesting turtles did not made the body pits in the above mentioned sand.