

# In-vivo Chlorophyll Timeline

Lorenzen publishes in-vivo chlorophyll research paper in Deep Sea Research Journal.



Scripps Institute publishes technique to support remote sensing of oceanic Chlor and in-vivo monitoring is established on all Oceanographic Research Vessels.

Chlorophyll *a* “non-acidification” method by Dr. Welschmeyer, published in Limnology & Oceanography journal. EPA approves technique to be included with method 445.

The SCUFA submersible Fluorometer is introduced.



The Cyclops family of Fluorescent probes is introduced.

1963

Yentsch & Menzel publish a method for determination of Chlorophyll & Pheophytin by fluorescence in Deep Sea Research Journal.

1966

1972

Turner Designs introduces the first Field Fluorometer designed for rugged outdoor use.



1981

1992

Fluorometric Methods published for determination of Chlorophyll using the extraction technique in Standard Methods for Water & Wastewater and EPA Method 445.

1994

1995

Model 10-AU Digital Field Fluorometer introduced.

1999

2002

Turner Designs introduces the AlgaeWatch Fluorometer for continuous monitoring of Chlor in surface waters.



2003