

UNDERWATER WIRELESS SUBMARINE COMMUNICATION SYSTEM

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ABSTRACT

- An **Underwater Wireless Communication** System covers the history of diving and underwater communication techniques
- Communication system that is used by submarines to communicate with ground station and with each other
- How sound is used to navigate underwater and to find submarines
- Underwater sound applications including military and commercial application
- How data is transferred underwater using sound and what are the limitations
- A communication prototype to transfer data underwater using ultrasonic signal
- The prototype has an interface with PC that uses an ultrasonic generator and receiver to convert digital data into ultrasound and vice versa
- Email can be send from a submarine while it is submerged. Even an Internet facility can be provided
- The prototype system interfaces the GPS so that submarines can update their location to head quarters while staying submerged
- Two submarines can communicate with each other while stay submerged below 500 meters. Before that the submarines have to come up on the surface to communicate with each other

Table of Contents

Contents	Page#
Acknowledgements	I
Project Brief	II
Abstract	III
Table of Contents	IV
List of Figures	VIII
Chapter 1: Introduction	01
Chapter 2: History	
2.1 History of Diving and Communication	03
2.2 Historical Development of Underwater Communication	05
2.2.1 Early Work of the Submarine Signal	07
2.2.2 Underwater Communication	08
Chapter 3: Underwater Radio Communication	
3.1 Understanding the Underwater Radio Communication	10
3.1.1 Water Conductivity	10
3.1.2 Attenuation	10
3.1.3 Refraction or Interface at the Surface	11
3.1.4 Wavelength in Water	11
3.1.5 Transmission Options	12
3.1.6 Antennas	12
3.1.7 Sea Water	13

Chapter 4:	Submarine Communication Systems	
4.1	Submarine Communication Systems	14
	4.1.1 Erectable Communication Mast Antenna	14
	4.1.2 VLF/LF Antennas	15
	4.1.3 Emergency HF Communication Antenna	15
	4.1.4 Buoyant Wire Antenna (BWA)	16
	4.1.5 Towed Communication Buoy Systems	17
Chapter 5:	Sound Applications	
5.1	Underwater Sound Applications	18
	5.1.1 Sound Used To Find Submarines	18
	5.1.2 Sound Used To Navigate Underwater	20
	5.1.3 Sound Transmits Data Underwater	21
Chapter 6:	Acoustic/Sound Transponders	
6.1	Underwater Acoustic Transponders	28
Chapter 7:	Acoustic Modems	
7.1	Underwater Acoustic Modems	29
7.2	The Challenges of Underwater Acoustic Telemetry	29
	7.2.1 Baud Rate	29
	7.2.2 Underwater Acoustics	29
	7.2.3 Multipath Echoes	30
	7.2.4 Need for Overhead	30
7.3	Real Time Oceanographic Data via Acoustic Modems	30
Chapter 8:	Underwater Military Applications	
8.1	Military Applications	33
	8.1.1 Examples of Military Applications	33

Chapter 9:	Underwater Commercial Applications	
	9.1 Commercial Applications	34
	9.1.1 Examples of Commercial Applications	34
Chapter 10:	Communication System Prototype Development	
	10.1 Communication System Prototype Development	35
	10.2 The PC Serial Interface	36
	10.3 Ultrasound Generator	38
	10.4 Ultrasound Receiver	40
	10.5 The Ultrasonic Transceiver	41
	10.6 Design Modifications	42
Chapter 11:	Prototype Testing	
	11.1 Prototype Lab Testing	44
	11.2 Horizontal Range Testing	44
	11.3 Vertical Depth Testing	45
	11.4 Full Open Water Testing	46
Chapter 12:	The Conclusion	
	12.1 Conclusion	47
Chapter 13:	Future Recommendations	
	13.1 Future Recommendations	48
	13.1.1 Overview	48
	13.1.2 Testing	48
	13.1.3 Implementation of Design Modifications	48
	13.1.4 Transmitter/Receiver Integration	48
	13.1.5 Portability	49
	13.1.6 Submarine Computer interfacing	49

13.1.7 Underwater Portable GPS interfacing	50
13.1.8 Submarine Black Box System	50

Chapter 14: References

14.1 References	51
14.2 Reference: DSRV	52

Fig. 3.1 - Scuba Hand Signals	14
Fig. 4.1 - ECM Antennas	17
Fig. 4.2 - VLF/LF Antennas	18
Fig. 4.3 - HF Antenna	19
Fig. 4.4 - BWA Antenna	24
Fig. 4.5 - Submarine Communications and Orientation	27
Fig. 5.1 - Seabunny	35
Fig. 5.2 - The position of the Emergency-Ordnance Recovery Vehicle (ROV)	36
Fig. 5.3 - Basic Acoustic Communication Model	37
Fig. 5.4 - Acoustic links used to control sea-floor robots (ROVs)	38
Fig. 5.5 - Autonomous vehicles working using underwater acoustic links	38
Fig. 5.6 - NeMo Net System	39
Fig. 5.7 - Acoustic Transponder	39
Fig. 10.1 - A Simple Underwater Communication Model	39
Fig. 10.2 - Serial Ports	40
Fig. 10.3 - A Simple Ultrasonic Generator	40
Fig. 10.4 - An Ultrasonic Generator Logic	40
Fig. 10.5 - A Simple Ultrasonic Receiver	40
Fig. 10.6 - Underwater Ultrasonic Transceiver	41
Fig. 10.7 - Duce Reflector Antennas	42
Fig. 11.1 - Horizontal Maximum Effort's range testing	45
Fig. 11.2 - Vertical Depth Testing in Open Tank	45
Fig. 11.3 - Open Water Environment's range testing	46