



IHB File No. S3/0302/ABLOS

CIRCULAR LETTER 55/2007
18 June 2007

ADVISORY BOARD ON THE LAW OF THE SEA (ABLOS)

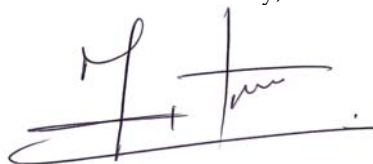
References: a) IHB CL 87/2006 dated 21 December
b) IHB CL 29/2007 dated 8 March

Dear Hydrographer,

1. The IHB received nominations from Brazil and Pakistan to serve on ABLOS. The CVs of the two nominations are enclosed at Annexes A and B. Both candidates are well qualified to serve and come from areas which are currently not represented on ABLOS. Consequently the IHB received agreement from Brazil and Pakistan that the selection for the new ABLOS member should be made by a simple draw at the IHB. The first name drawn would take up the vacancy on ABLOS and the other nomination would serve on ABLOS as an Observer and then take up the next vacancy for an IHO member.

2. The draw was made on 18 June and the nomination of Commander Muhammad BASHIR from Pakistan was selected. Luiz Carlos TORRES from Brazil will be invited to participate in all ABLOS activities as an Observer.

On behalf of the Directing Committee
Yours sincerely,



Vice Admiral Alexandros MARATOS
President

Annex A CV Luiz Carlos Torres - Brazil
Annex B CV Cdr Muhammad Bashir - Pakistan

Brazilian Navy

Brazilian Navy Hydrographic Centre

Curriculum Vitae

Luiz Carlos Torres

Brazilian Navy Hydrographic Center, Division of the Cartography, Cartographic Database Section, Rua Barão de Jaceguay S/N, Ponta da Armação, Niterói – RJ, CEP 24048-900.

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Birth date: March 04, 1962. Nova Iguaçu, RJ, Brazil.

Nationality: Brazilian.

Academic qualifications:

Brazilian Naval School, Rio de Janeiro, from January 1982 to December 1986,

Diretorate of Hidrography and Navigation, Niterói, RJ, January 1989 to December 1998
Hydrography Course for Brazilian Navy Officers,

Brazilian Navy School of Naval War, Rio de Janeiro, RJ, from January 1992 to December 1994, Basic Course of the Brazilian Navy School of Naval War,

Universidade Federal Fluminense, UFF, Niterói, RJ, March 1995 to December 1997,
Master Science Course on Geology and Geophysic Marines.

Brazilian Navy School of Naval War, Rio de Janeiro, RJ, from January 2002 to December 2002, Superior – A Course of the Brazilian Navy School of Naval War.

Universidade Federal Fluminense, UFF, Niterói, RJ, since March 2007, Doctorate Course focused on Geology and Geophysic Marines.

Positions held

Auxiliary of the Head of the Deck Division of the Hydrographic Ship “Sirius” (15/12/1986 to 20/03/1987).

Head of the Deck Division of the Hydrographic Ship “Sirius” (20/03/1987 to 26/06/1987).

Head of Supply Department of the Hydrographic Ship “Sirius” (26/06/1987 to 01/09/1987).

Head of the Repair Division of the Hydrographic Ship “Sirius” (01/09/1987 to 24/01/89).

Course of Hydrography for Brazilian Navy Officer (24/01/1989 to 28/12/1989).

Auxiliary of the Head of the Deck Division of the Hydrographic Ship “Sirius” (29/01/1990 to 19/11/1990).

Head of the Deck Division of the Hydrographic Ship “Sirius” (19/11/1990 to 09/03/1992).

Head of the Hydrography Division of the Hydrographic Ship “Sirius” (09/03/1992 to 03/11/1992).

Auxiliary of the Head of the Navigation Division of the Support Oceanographic Ship “Barão de Teffe” (27/11/1992 to 30/04/1993).

Head of the Navigation Division of the Support Oceanographic Ship “Barão de Teffe” (30/04/1993 to 31/01/1995).

Master Science Course focus on Geology and Geophysic Marine at Universidade Federal Fluminense, Brazil, (13/03/1995 to 20/12/1997).

Auxiliary of the Head of the Bathymetric Data Analyzing Section, of the Brazilian Hydrographic Office (05/01/1998 to 29/04/1998).

Head of the Bathymetric Data Analyzing Section, of the Brazilian Hydrographic Office (29/04/1998 to 25/01/2000).

Executive Officer of the Lighthouse Tender Ship “Almirante Graça Aranha” (12/02/2000 to 08/02/2002).

Auxiliary of the Head of the Production and Update Section (11/03/2003 a 08/03/2003).

Head of the Production and Update Section (08/03/2003 to 06/08/2003).

Head of the Development and Analyzing Section (06/08/2003 to 24/09/2003).

Head of the Cartography Division of the Brazilian Navy Hydrographic Center (24/09/2003 to 08/03/2004).

Head of the Cartographic Database Section of the Cartography Division of the Brazilian Navy Hydrographic Center (08/03/200 to xx/xx/2007).

Management of projects

Manager of the Project Special Charts to Mining Operation and Mining Counter-measure from 03 June 1997 to 30 November 1999.

Manager of the Project Special Charts to Submarine Operations from 02 February 2003 to 14 August 2003.

Manager of the Project Electronic Charts since 14 August 2003.

Work Group Participations

Work Group to elaborate the High Level Requirements for the Acquisition of the Brazilian Minesweeper Ship to be employed in the Brazilian Navy

Work Group to prepare the necessary documentation for the creation of the Brazilian Navy Hydrographic

Work Group to review the specific project of the Hydrography Officer Course on the discipline Geology and Geophysics Marines.

Work Group to follow the Brazilian Submission regarding the Establishment of the Continental Shelf Outer Limit in Accordance with the Article 76 of the United Nations Convention on the Law of the Sea

Work Group to prepare the modernization of the Nautical Cartography Tasks on the Brazilian Navy in Accordance with International Brazilian obligations related to the International Hydrographic Organization.

Work Group to follow the Brazilian Outer Limit Continental Shelf Submission under analyzing by the Commission on the Limit of the Continental Shelf.

Publications:

Torres, L.C., Gamboa, L.A.P. e Gomes, B.S. 1997. Determinação da Espessura Crustal na Margem Ativa da Região Antártica. In: V International Congress of the Brazilian Geophysical Society. 1997a. Pages 67 a 70.

Torres, L.C., 1997. Aplicação de Métodos Geofísicos (Sísmica Multicanal, Gravimetria e Magnetometria) para a Determinação da Estrutura Crustal da Margem Ativa da Região Antártica. Dissertation Conclusion Master Science focused on Geology and Geophysical Marine, Universidade Federal Fluminense, Brazil. 102pages.

Torres, L.C. 1998. Comparação entre o Embasamento Obtido a partir da Sísmica Multicanal com o Obtido por Meio da Magnetometria. Brazilian Hydrographic Office Journal, Vol LV – Diretoria de Hidrografia e Navegação, 1998, pages 111-115.

Torres, L.C. 1998. Cruzeiro 159-5 R/V Knorr – Margem Continental Sul Brasileira. Período de 05 de outubro a 12 de novembro de 1998. Rio de Janeiro, Brazilian Hydrographic Office (Internal Report), 41 pages.

Torres, L.C., Jeck, I.K. e Alberoni, A.A.L. 1999. Geomorphologic Aspects Of The Amazon Cone Identified Through Integration of Bathymetric Data. In: Regional Geomorphology Conference (IAG) - Rio de Janeiro – RJ, 1999.

Torres, L.C., Jeck, I.K. e Alberoni, A.A.L. 1999. Determinação Da Inclinação do Fundo Marinho na Região do Cone do Amazonas. In: IX Brazilian Congress of Geology for Engineering, - São Paulo, Brazil, 1999.

Torres, L.C., Jeck, I.K. e Alberoni, A.A.L. 1999. Integração de dados batimétricos no Cone do Amazonas. In: VI International Congress of the Brazilian Geophysical Society. Rio de Janeiro, RJ, Brazil, 1999. CDROM.

Magno, E.C.F., Torres, L.C., Jeck, I.K., Alberoni, A.A.L. e Simões, I.C.V.P. 2000. Bathymetric Swath Employed in the Delineation of Geomorphologic Features. In: 31st International Geological Congress, Rio de Janeiro, Brazil, 2000. Abstracts Volume. Rio de Janeiro, RJ, Brazil, CDROM – Scientific Program – 20.5

Torres, L.C., Jeck, I.K. e Alberoni, A.A.L. 2000. Definition of the Foot of Slope in the Brazil Northeast Margin. In: 31st International Geological Congress – Rio de Janeiro – RJ, 2000. Abstracts Volume. Rio de Janeiro, RJ, Brazil. CDROM – Scientific Program – 4.2

Torres, L.C. 2000. Geophysics methods application in order to determine the crustal structure at Antarctic margin. In: 31st International Geological Congress – Rio de Janeiro – RJ, 2000. Abstracts Volume. Rio de Janeiro, RJ, Brazil. CDROM – Scientific Program – 4.3

Torres, L.C., Jeck, I.K., Alberoni A.A.L., Brehme, I. 2001 Tópicos sobre metodologias passíveis para determinação do Pé do Talude continental conforme a Convenção das Nações Unidas sobre o Direito do Mar. In: VII International Congress of the Brazilian Geophysical Society. Environmental Geophysics – CDROM - Volume I pages 281 a 284 - Salvador – BA, Brazil. 2001.

Torres, L.C. 2002 - O Esforço Brasileiro para o Estabelecimento do Limite Exterior de Sua Plataforma Continental. Escola de Guerra Naval. Dissertation of Conclusion of Superior Course of Brazilian Navy School of Naval War. Rio de Janeiro, RJ, Brazil, 2002. Rio de Janeiro - RJ. 14 pages.

Torres, L.C., JECK, I.K. e ALBERONI, A.A.L., 1999. Configuração morfológica do cone do Amazonas a partir da integração de dados batimétricos. In: Brazilian Geomorphology Journal, year 4, number 1, march 2003.

Torres, L.C., Villena, H.H., Barreira, L.M., Santos, D.I., Rangel, A.A. 2003 Base de Dados Batimétricos do Atlântico Sul. XXI Brazilian Congress of Cartography. Belo Horizonte, MG.

Torres, L.C. & Tavares, A.A.L.A. 2004. Analyzing Reporter of Namíbia Desktop Study Project – Focus on: Determination of the foot of slope and 2500m isobath on Namíbia Continental Margin and Walvis Ridge Rise. Brazilian Navy Hydrographic Center, Niterói, RJ, Brazil, 13 pages, (Internal Reporter).

Torres, L.C. 2004. Preliminar Reporter of Bathymetric data Acquisition and Methodology for the Determination of the Foot of Slope and 2500m Isobath on the Namibia Continental Margin and Walvis Ridge Rise. Brazilian Navy Hydrographic Center, Niterói, RJ, Brazil, 16 pages, (Internal Reporter).

Torres, L.C. & Tavares, A.A.L.A. 2004. Technical Reporter I – Development of Methodology for the Determination of the Foot of Slope and the 2500m Isobath on the Namibia Continental Margin and Walvis Ridge Rise. Brazilian Navy Hydrographic Center, Niterói, RJ, Brazil, 12 pages, (Internal Reporter).

Torres, L.C. & Tavares, A.A.L.A. 2005. Processament of Bathymetric Data Carried out on the Namibia Continental Margin and Walvis Ridge Rise. Brazilian Navy Hydrographic Center, Niterói, RJ, Brazil, 7 pages, (Internal Reporter).

Torres, L.C., 2005. O mapa do Brasil no mar está mudando de cara. In: XXII Brazilian Congress of Cartography. Macaé, RJ, Brazil, September, 2005. Congress CD, paper 45CT03.

Torres, L.C., 2005. Controle de qualidade das informações batimétricas empregadas para o estabelecimento do limite exterior da plataforma continental brasileira. In: XXII Brazilian

Congress of Cartography. Macaé, RJ, Brazil, September, 2005. Congress CD, paper 19CT01.

Torres, L.C., 2005. The Brazilian expanded continental shelf beyond its Exclusive Economic Zone. In: IX International Congress of the Brazilian Society, Salvador, BA, Brazil, September. Congress CD, paper SBGf15.

Torres, L.C., 2005. Relatório Preliminar de Aquisição de Dados Geofísicos no Cone do Amazonas em Apoio ao LEPLAC. Período de 10 de novembro a 25 de novembro de 2005. Rio de Janeiro, RJ, Brazil. Brazilian Navy Hydrographic Center, Niterói, RJ, Brazil, 22 pages, (Internal Reporter).

Torres, L.C. & Ferreira, H. S., 2005. Amazônia Azul: A Fronteira Brasileira no Mar. Rio de Janeiro, RJ, Brazil. Passadiço Magazine, Ano XVIII - 2005. Pages 3-5.

Torres, L.C., Maldonado, P.R e Faria, A.F.G., 2006. O Estabelecimento do Espaço Geográfico Marítimo Brasileiro. Brazilian Hydrographic Office, Volume LXI – Diretoria de Hidrografia e Navegação, Niterói, RJ, Brazil. 2006. Pages 59-68.

Torres, L.C., Rangel, A. A., Villena, H.H, Jack, I.K., and Tavares, A.A.L.A 2007. “The Outer Limit of the Continental Shelf in the Brazilian Northern Continental Margin”, in the XI International User Groups Conference And Educational Sessions, sponsored by Caris Universal Systems Company, in Kuala Lumpur, Malásia. 11 pages.

Oral presentation

Presented lecture in 23 June 2005 in the Universidade Federal de Juiz de Fora named: “A Amazônia Azul e a Ampliação da Soberania do Brasil no Atlântico”.

Presented lecture in 24 June 2004 in the Universidade Federal de Juiz de Fora named: “O Esforço Brasileiro para o Estabelecimento da Sua Plataforma Continental Segundo a Convenção das Nações Unidas sobre o Direito do Mar”.

Presented in 25 September 2005 at XXII Congresso Brasileiro de Cartografia the papers: “O Mapa do Brasil no Mar está Mudando de Cara” and “Controle de Qualidade das Informações Batimétricas Empregadas para o Estabelecimento do Limite Exterior da Plataforma Continental Brasileira”.

Presented in 02 August 2006 during the Workshop regarding electronic nautical charts took place in the Brazilian Navy Hydrographic Center the lecture named: “A carta eletrônica: raster e vetorial”.

Presented in 22 August 2006 during the 2º Encontro Nacional de Produtores e Usuários de Informações Sociais, Econômicas e Territoriais in the session – The new Brazilian Boundary: Politics and Strategic consequences of the Brazilian Maritime Boundaries ratification, the lecture named: “O estabelecimento do espaço geográfico marítimo brasileiro”.

Presented in 22 September 2006 in the Instituto de Astronomia e Geofísica da Universidade de São Paulo, Brazil, the lecture named: “O estabelecimento do espaço geográfico marítimo brasileiro”.

Presented in 07 March 2007 during the XI International User Groups Conference And Educational Sessions, sponsored by Caris Universal Systems Company, in Kuala Lumpur, Malásia, the scientific paper: “The Outer Limit of the Continental Shelf in the Brazilian Northern Continental Margin”.

Oceanographic cruises

Hydrographic Research on board of Hydrographic Ship “Sirius” on Campos Basin, Brazil, from 09 to 23 February 1987.

Hydrographic Research on board of Hydrographic Ship “Sirius” on Campos Basin, Brazil, from 09 to 26 June 1987.

Hydrographic Research on board of Hydrographic Ship “Sirius” on Campos Basin, Brazil, from 09 to 23 February 1987.

Hydrographic Research on board of Hydrographic Ship “Sirius” on Campos Basin, Brazil, from 05 October to 03 November.

Hydrographic Research on board of Hydrographic Ship “Sirius” on Campos Basin, Brazil, from 09 to 26 November 1987.

Hydrographic Research on board of Hydrographic Ship “Sirius” on Campos Basin, Brazil, from 01 to 12 November 1987.

Hydrographic Research on board of Hydrographic Ship “Sirius” on Campos Basin and test on CONSUB Enterprise VCR-1 equipment, from 22 February to 06 April 1988.

Hydrographic Research on board of Hydrographic Ship “Sirius” from Campos Basin to Pelotas Basin, Brazil, from 02 June to 01 July 1988.

Hydrographic Research on board of Hydrographic Ship “Sirius” on Campos Basin, Brazil, from 18 to 29 July 1988.

Oceanographic Post of Trindade Island supplying operation on board of Hydrographic Ship “Sirius” from 16 August to 11 September 1988.

Hydrographic Research on board of Hydrographic Ship “Sirius” on cruise Hidronorte, on Rio Grande Norte offshore, Brazil, from 24 April to 30 June 1990.

Oceanographic Post of Trindade Island supplying operation on board of Hydrographic Ship “Sirius” from 06 to 17 October 1990.

Hydrographic Research on board of Hydrographic Ship “Sirius” on cruise Hidronorte I, on Bahia offshore, Brazil, employing Side Scan Sonar and GPS from 07 November to 22 December 1990.

Hydrographic Research on board of Hydrographic Ship “Sirius” on cruise Rota Regular Vitória-Abrolhos, on Bahia and Espírito Santo offshore, Brazil, employing Side Scan Sonar and GPS to obtain geodesic positioning from 08 July to 18 September 1991.

Training trip to Brazilian Navy Hydrographer Officers on board of the Hydrographic Ship “Sirius” on Angra dos Reis offshore, Brazil, from 04 to 23 November 1991.

Oceanographic Post of Trindade Island supplying operation on board of Hydrographic Ship “Sirius” from 12 to 29 June 1992.

Acceptance test of the Racal 900 automatic acquisition geophysical data system and Hyperfix positioning system on board of the Hydrographic Ship “Sirius”, on Campos Basin, from 09 to 16 July 1992.

Hydrographic Research on board of Hydrographic Ship “Sirius” on cruise Hidrográfica IV, on Espírito Santo offshore, Brazil, employing Side Scan Sonar from 24 August to 30 October 1992.

Participation on Antarctica XI Operation in order to supply The Brazilian Antarctica Station Comandante Ferraz, acquisition of oceanographic and geophysical data and supporting the Brazilian Projects developed in the Antarctic Continent, on board of the Support Oceanographic Ship “Barão de Teffe”, from 09 November 1992 to 03 April 1993.

Participation on Antarctica XII Operation in order to supply The Brazilian Antarctica Station Comandante Ferraz, acquisition of oceanographic and geophysical data and supporting the Brazilian Projects developed in the Antarctic Continent, on board of the Support Oceanographic Ship “Barão de Teffe”, from 04 November 1993 to 06 April 1994.

Geophysical research in order to support the Brazilian Continental Shelf Project on the Vitória-Trindade Ridge, on board of the Oceanographic Ship Almirante Câmara, from 16 to 27 August 1997.

Oceanographic research including sampling core tasks on the Southern Brazilian Continental Margin on board of the Research Vessel “Knorr” American flag, from 05 October to 12 November 1998.

Oceanographic Post of Trindade Island supporting operation on board of Lighthouse Tender Ship “Almirante Graça Aranha” from 04 February to 02 March 2000.

Participation on cruise “Comissão Farol Nordeste I” on board of the Lighthouse Tender Ship “Almirante Graça Aranha”, on the Southeast and Northeast Brazilian offshore, from 07 June to 05 September 2000.

Participation on multibeam training cruise on board of the Hydrographic Ship “Taurus”, on Rio de Janeiro offshore, from 17 to 19 March 2004.

Geophysical Research in order to carry out seismic multichannel, gravity, magnetometry and swath bathymetry data on Namibia Continental Margin and Walvis Ridge Rise on board of the Research Ship “Sea Surveyor”, Bahamas flag, from 19 April to 25 May 2004.

Geophysical research nearby the Amazonas Deep Sea Fan in support to the Brazilian Continental Shelf Project, on board of the Oceanographic Ship “Antares” from 10 to 25 November 2005.

Official representations in Brazil

Pointed out to the Master Science Course focused on Geology and Geophysics Marine, in the Universidade Federal Fluminense (RJ), from 01 March 1995 to 20 December 1997.

Pointed out as Brazilian Navy on boarding Officer in order to check the research tasks developed on board of the Research Vessel Knorr in the Brazilian Jurisdictional waters, from 05 October to 12 November 1988.

Representative of the Brazilian Navy in the VI Congresso Internacional da Sociedade Brasileira de Geofísica, held in Rio de Janeiro (RJ), from 15 to 19 August 1999.

Representative of the Brazilian Navy in the XXX Reunião Anual do Programa de Geologia e Geofísica Marinha, held in Belém (PA) from 28 June to 02 July 1999. Pointed out as Chairman of the selective processing for evaluation the candidates to the Brazilian Officers Body graduated in Geology.

Pointed out to the function of Executive Officer of the Lighthouse Tender “Almirante Graça Aranha”.

Pointed out as Lecturer during the First International Training Course for Stabilishment of the Continental Shelf Outer Limit, occurred in the Rio de Janeiro, from 04 to 08 March 2002.

Pointed out as member do Committee of the Sub-Commission of Spatial Data of the Commission National of Cartography, in 18 March 2004.

Pointed out as representative of the Brazilian Hydrographic Center to participate of the meeting regarding the representations of the Exclusive Economic Zone and Continental Shelf Outer Limit on the official political and physical Brazilian Maps in 16 May 2005.

Pointed out as representative of the Brazilian Hydrographic Center to participate of the IX International Congress of the Brazilian Geophysical Society, on Salvador, Bahia, as technical session chairman and lecturer of scientific paper, in 06 September 2005.

Pointed out as representative of the Directorate of Hydrography and Navigation to participate of the XXII Brazilian Congress of Cartography, in Macaé (RJ), from 24 to 28 September.

From 15 December 2005 was pointed out as member of the Work Group under Interministerial Commission to the Sea Resource to follow the Brazilain Outer limit of the Continental Shelf Submissiom until which the limits are established by the Brazilain Governament in accordance to the Article 76 of United Nations Convection on the Law of the Sea.

Pointed out as representative of the Directorate of Hydrography and Navigation to participate of the IV Conferência Nacional de Geografia e Cartografia regarding the new Brazilian Eastern Boundary and present the lecture named: “O Espaço Geográfico Marítimo Brasileiro”.

Official representation abroad

Pointed out to participate of the presentations regarding to Angola and Namibia Continental Shelf Project in 08 April 2004, Luanda (Angola) and Windhook (Namibia).

Pointed out to integrate to the Scientific Team on board of the Reaserch Vessel Sea Surveyour in order to control the quality of acquired data (seismic multichannel, gravity, magnetometry and swath bathymetry) and respective processing to be employed in the stablishement of the Namibia continental shelf outer limit (Namibia Offshore).

Pointed out as representative of the Directorate of Hydrography and Navigation to participate of the the presentation regarding the conclusion of the field acquisition of geophysical data to the Namibian Technical Committee pointed out to the Establishment of the Outer Limit of Continental Shelf, Windhook, Namibia, in 04 August 2004.

Pointed out as member of the Brazilian Delegation responsible by presentation and defense of the Brazilian Continental Shelf Outer Limit Sub-mission to the Commission on the Limits Continental Shelf, New York, from 30 August to 17 September 2004.

Pointed out to visit the Uruguayan Hydrographic Office in order to deal about Brazil and Uruguay Lateral Maritime Boundary harmonization regarding the establishment of the Continental Shelf Outer Limit, Montevideo, Uruguay, in 29 October 2004.

Pointed out as member of the Brazilian Delegation responsible by defense of the Brazilian Continental Shelf Outer Limit Submission face to Sub-Commission pointed out to analyze the Brazilain Submission, New York, from 11 to 22 April 2005.

Pointed out as member of the Brazilian Delegation responsible by defense of the Brazilian Continental Shelf Outer Limit Submission face to Sub-Commission pointed out to analyze the Brazilain Submission, New York, from 22 August to 09 September 2005.

Pointed out as member of the Brazilian Delegation responsible by defense of the Brazilian Continental Shelf Outer Limit Submission face to Sub-Commission pointed out to analyze the Brazilain Submission, New York, from 20 March to 01 April 2006.

Pointed out as member of the Brazilian Delegation in order to participate of 54th Limit Mist Conference Between Brazil and Uruguay and Characterization of the laterla Maritime Boundary, Montevideo, Uruguay, from 04 to 06 September 2006.

Pointed out as Brazilain Navy represenative to participate of the 18th Meeting of the Committee on Hydrographic Requirements for Information Systems (CHRIS), occurred on Cairns, Australia, from 22 to 29 September 2006.

Pointed out as representative of the Brazilian Hydrographic Center to participate of the XI International User Groups Conference And Educational Sessions, sponsored by Caris Universal Systems Company, in Kuala Lumpur, Malásia, from 04 to 09 March 2007.

Pointed out as member of the Brazilian Delegation responsible by defense of the Brazilian Continental Shelf Outer Limit Submission face to Commission on the Limits of the Continental Shelf, New York, from 24 March to 07 April 2006.

Honors and awards

Military Merit Medial, in order to have completed more than 10 years on the Navy;

Military Merit Mariner Medial, with one anchor, in order to have completed more than 500 days of naval operations on the sea.

Military Merit Mariner Medial, with two anchors, in order to have completed more than 50 days of naval operations on the sea.

Military Merit Medial, in order to have completed more than 20 years on the Navy;

Medial of the Cartographic Merit on level of Gentleman delivered by Brazilian Society of Cartography.

Medial of the Cartographic Merit on level of Officer delivered by Brazilian Society of Cartography.

GENERAL - GENERALITES

- | | | |
|----|--|-----------------|
| 1. | Name – <i>Nom</i> : | Muhammad Bashir |
| 2. | Nationality – <i>Nationalité</i> : | Pakistani |
| 3. | Date of birth – <i>Date de naissance</i> : | 9-10-1965 |
| 4. | Title and décorations – <i>Titres et décorations</i> : | N/A |

EDUCATION AND PROMOTIONS – ETUDES ET PROMOTIONS
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5. Education (periods, including specialized or special qualifications) – *Etudes (durée, y compris les qualifications de spécialisation ou les qualifications spéciales)* :
- | | |
|-------------|--|
| 2005 – 2006 | Graduation in Deep Ocean Bathymetry, University of New Hamshire USA |
| 2005 – 2006 | CAT 'A' Certification in hydrography from Centre of Coastal and Ocean Mapping/ Joint Hydrographic Centre (CCOM / JHC), USA |
| 2005-2005 | Marine Data Processing U K Hydrographic Office (UKHO) |
| 2002–2003 | Pakistan Navy Staff College |
| 1999-2000 | Oceanographic Data Processing, Hydrogrographic Office Japan |
| 1997 – 1998 | Specialization in Navigation and direction (ship's pilot) |
| 1986 – 1988 | BSC (Hons) from University of Karachi |
6. Languages (speaking and reading knowledge) – *Langues (parole et lecture)* :
- | | |
|----------|--------|
| English: | Fluent |
| Urdu: | Native |
7. Promotions:
- | | |
|------|---|
| 2003 | Chief Scientist and 2 nd in Command of Survey Vessel (Commander) |
| 2000 | Ship's Navigator/ Senior Surveyor (Lieutenant Commander) |
| 1993 | Watch Keeper Survey Vessel (Lieutenant) |
| 1989 | Watch Keeper (Sub Lieutenant) |

- 1988 Naval Engineering College (Midshipman)
 1986 Basic Training at Pakistan Naval Academy (Cadet)

SERVICE - SERVICES

8. Hydrographic service – *Services dans l'hydrographie* :

(a) Sea service (periods and posts) – *Services à la mer (durée et postes)* :

- 2006-2007 project of extension of Continental Shelf Survey of Pakistan
 2004-2005 Chief Scientist onboard survey vessel Behr Paima
 1999-2000 Chief Observation Officer Hydrographic and related data & Ship's Navigator
 1997 Officer Incharge Hydrographic surveys
 1996 Officer Incharge Oceanographic Bathymetric and tidal data
 1995 Officer Incharge Geodetic data
 1994 Officer Incharge Oceanographic Labs
 1993 Office Incharge Hydrographic Labs – Survey Vessel Behr Paima

(b) Shore service (periods and posts) – *Services à terre (durée et postes)* :

- 2003 Deputy Hydrographer of Pakistan Navy
 2002 Incharge NAVAREA IX
 1998 Instructor Hydrographic School

9. Non-Hydrographic service – *Services autres qu'hydrographiques* :

(a) Sea service (periods and posts) – *Services à la mer (durée et postes)* :

- 1989 -1992 Onboard Maritime Security Agency Vessels

(b) Shore service (periods and posts) – *Services à terre (durée et postes)* :

- 2001 Staff Officer (Training) at Naval Headquarters

SCIENTIFIC ACTIVITIES – ACTIVITES SCIENTIFIQUES

10. Publications of which he is the author – *Publications dont il est l'auteur* :

- 2000 Wrecks along the coast of Pakistan
 1998 Survey of shallow water along the coast of Pakistan to identify the shelf limits
 1996 Survey of Deep water to identify the foot of the slope
 1995 Erosion / siltation study of creeks area survey (Indus Delta)
 1994 Geodetic Network along the coast of Pakistan
 1993 Report on the project of Survey of Ormara Port

11. Research work and awards – *Travaux de recherche et récompenses obtenues* :
- 2005 Study on the Tsunami effected area to develop a map of all existing data collected by various organization.

12. Scientific Societies (member of, past and present) – *Sociétés savantes (dont il est ou a été membre)* :

General Bathymetric Charts of the Ocean (GEBCO)
Hydrographic Society of Paksitan

ADDITIONAL INFORMATION – RENSEIGNEMENTS COMPLEMENTAIRES
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CDR Muhammad Bashir Commitments

- a. Working experience with centre of Coastal and ocean mapping / joint Hydrographic Centre (USA), to gain the practical knowledge on law of sea for extension of continental shelf project under the supervision of Professor David Monahan (Chairman GEBCO) to assist the ongoing shelf project of Pakistan.
- b. Working Experience with the scientists of Alfred Wagner Institute of Polar Sciences(AWI), Germany on the demarcation of maritime boundary. The experience gained is being utilized to establish the maritime boundary limits in Sir Creek area between India and Pakistan.
- c. Participated in the ongoing Shelf Project of New Zealand in the Institute of Geological and Nuclear Sciences (GNS) prior submission of New Zealand case to UN Commission on the law of the sea under the super vision of Dr Ray Wood and Dr Robin Falconer.