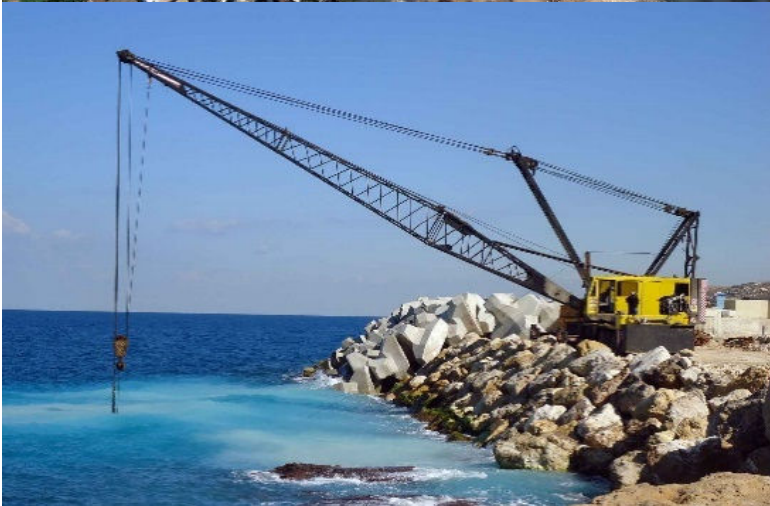
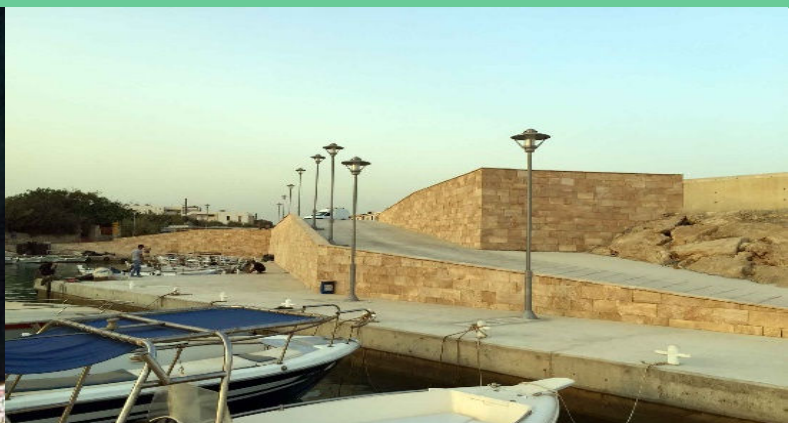




FISHING PORTS

SEATEC SARL

We understand the language of Waves



LEBANON

BYBLOS, DOWN TOWN, 31 ERNEST RENAN ST, BEAYNI CENTER, 1ST FLOOR

PH : 00961 9 55 00 22

FAX : 00961 9 55 00 44

MOB : 00961 3 29 10 30

WEB : WWW.SEATEC-SARL.COM

EMAIL : SEATEC@SEATEC-SARL.COM





SUPERVISING EXPERTS AND TECHNICAL ENGINEERING CONSULTANTS SINCE 2000

/ ABOUT US /

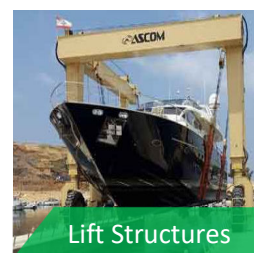
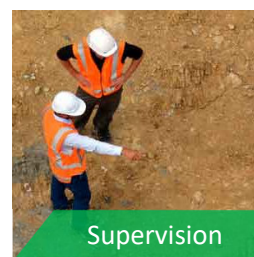
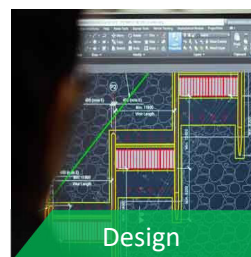
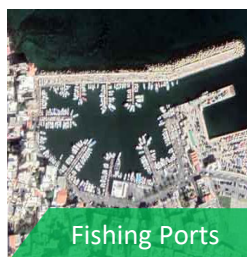
SEATEC provides its clients with design and supervision services in coastal and port engineering, covering surveying, site investigation, tender and detailed design, numerical modeling, feasibility and EIA studies, permitting, construction planning, management and supervision.

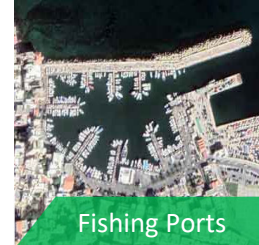
Serving public as well as private sectors in Lebanon and abroad since 2000, **SEATEC** is dedicated to give its clients the best engineering assistance.



OUR SERVICES

*SEATEC IS COMMITTED TO PROVIDING ITS CLIENTS
WITH THE BEST ENGINEERING SERVICES COVERING THE FOLLOWING:*





Fishing Ports

Fishing Ports – SEATEC scope

• DESIGN

- Conceptual, Tender and detailed design
 - o Port master planning
 - o Dredging plan
 - o Berthing configurations
 - o Navigation plan (ATON)
 - o Marine structures (Breakwaters - quay walls - platforms)
 - o Facilities within the port (Lift / hoist facility - slipway - fueling station)
 - o Cars circulation / parking
 - o Landscaping
 - o MEP (Electrical and water supply, power pedestals...)
 - o Feasibility studies
 - o Detailed drawings
 - o Tender documents, technical specification and BOQ
 - o Assistance of Client in bidding procedures
 - o 3D views and animation
- Modeling
 - o Numerical modeling of deepwater and nearshore waves and basins disturbances
 - o 2D/3D physical modeling and collaboration with international companies
- EIA / Permitting
 - o EIA studies
 - o Permits follow up

• SURVEY

- Topographic survey
- Bathymetric survey (multi beams echo sounding)
- Underwater inspection (diving, underwater pics and videos, sampling, assessment of existing structures conditions)
- Geotechnical investigation: Follow up on site of drilling and sampling operations (onshore and offshore)

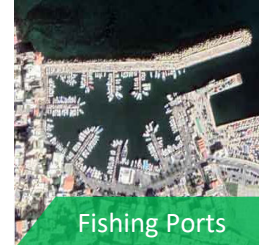
• SITE SUPERVISION

- Follow up by SEATEC supervision team of works execution on site (daily presence)
- Instructions for contractors
- Inspection
- Approval of contractor payments

MPWT
DGLMT
DGRB
POTA
EDL

: Ministry of Public Works and Transport
: Directorate General of Land and Marine Transport
: Directorate General of Roads and Buildings
: Port Of Tripoli Authority
: Electricité Du Liban





Fishing Ports

• AARIDA FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)

- Bathymetric survey of site. (2010)
- Master plan Design. (2010)
- Bathymetric survey of Nahr-el-Kebir and design for river dredging. (2011).
- Design and Supervision of River Bank protection with sloped rocky protection, R.C. platforms and dredging of river entrance. (2012 - 2013)
- Design of a new fishing Port at the vicinity of the river (breakwaters, quay walls, platforms.). (2012)
- Design and Supervision of dredging works at river entrance. (2015 - 2016 - 2017)

• CHEIKH ZENNAD FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)

- Bathymetric survey of site. (2000)

• RAMKINE ISLAND AT TRIPOLI (LEBANON – CLIENT : MPWT / DGLMT)

- Design of lighthouse rehabilitation and service quay. (2008)

• TRIPOLI FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)

- Overall master plan. (2011)
- Design of quaywalls @-3.00m, pontoons, platforms. (2016 - 2017)

• HIRAN FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)

- Overall master plan. (2011)
- Design of a new fishing port (breakwater, quay walls.). (2017)

• GROYNE & QUAYWALL AT THE SOUTHERN SANDY BEACH AT TRIPOLI (LEBANON – CLIENT : DGLMT)

- Design of a groyne (with rocky protections) and a quay wall @-3.00m with precast concrete blocks. (2006)

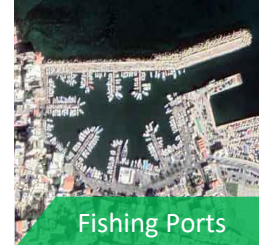
• KALAMOUN FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)

- Design for basin dredging and breakwater extension. (2008)
- Design for basin dredging. (2008 - 2010).

• CHEKKA FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)

- Design of precast concrete quaywalls, rocks protection, land reclamation, basin dredging, fishermen rooms... as a part of the first phase rehabilitation works of the existing port. (2006 - 2007)
- Supervision of execution works (Phase 1). (2008)
- Design of precast concrete quay walls, rocks protection, land reclamation, basin dredging, fishermen rooms as a part of the second phase rehabilitation works of the existing port. (2008 - 2009)
- Supervision of execution Works (Phase 2). (2010 - 2011)
- Design and Supervision of entrance Dredging. (2012)
- Design of Accropodes protection for the port entrance. (2012)
- Design of concrete pontoon for entrance protection. (2017)





• **HERY FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)**

- Master plan design. (2009)

• **BATROUN FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)**

- Design for basin dredging. (2007-2008)
- Design of rehabilitation works for platforms and internal basin dredging and Supervision of execution works. (2008)

• **MARINE SCHOOL AT BATROUN (LEBANON – CLIENT : MPWT / DGLMT)**

- Design for land reclamation and coastal protection of Marine School at Batroun (Decree). (2007)

• **BERBARA FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)**

- Preliminary design of existing breakwater rehabilitation, quay wall extension, retaining walls...(2006)
- Design of basin dredging (2007) and Works supervision in (2008).
- Design of existing concrete breakwater rehabilitation, quaywall extension, waves attenuator, retaining walls...(2008-2009) and Supervision of execution works. (2010)
- Design and Supervision of installation of 48 Accropodes blocks 16m³. (2010)
- Design of WWTP, fishermen rooms, R.C. platforms. (2014)

• **AMCHIT FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)**

- Design of quay walls, platforms, fishermen rooms (2006 - 2007) and Supervision of execution Works. (2008)
- Design of rehabilitation works for main breakwater (with Accropodes blocks and new RC crown wall, underwater concrete quay walls, lighting and water supply, inner basin dredging). (2012)
- Supervision of execution Works. (2012 - 2013 - 2014)

• **BYBLOS FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)**

- Bathymetric surveys. (2003)
- Design of extension and rehabilitation works - low crested breakwater: Accropodes armor layer, crown wall, lighting and water supply, basin dredging, rehabilitation of damaged historical sea wall. (2010 – 2011 – 2012)
- Design of submerged breakwater variant. (2014)
- Design of rehabilitation works of the old port (quay walls, platforms, lighting and water supply, basin dredging). (2015)

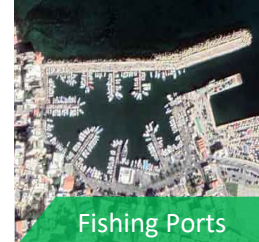
• **HALATE FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)**

- Design of master plan. (2010 - 2011)
- Design of a new Fishing Port (breakwater, quay walls, platforms, lighting and water supply, fishermen rooms). (2016)
- Design of the first phase of the main breakwater works (Accropodes blocks, dredging.). (2017)

• **DORA FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)**

- Design for basin dredging. (2007)
- Design and Supervision of Basin dredging. (2008 - 2010 - 2012)
- Design of Main breakwater extension. (2010)
- Design and Supervision of complete rehabilitation works (1200m of new quay walls and piers, rocky protection at entrance, new fishermen rooms, new fish market, new fishermen syndicate headquarter, lighting and water supply, slipways, reclaimed areas, RC seawall and platforms, hoist). (2012 - 2013 - 2014 - 2015 - 2016 - 2017)
- Design of a Fishing Port. (2017)





• **JOUNIEH FISHING PORT (LEBANON – CLIENT : DGLMT)**

- Design and Supervision of basin dredging. (2008)

• **DBAYE FISHING PORT (LEBANON – CLIENT : DGLMT)**

- Bathymetric surveys of basin. (2003)
- Design of basin dredging. (2009)

• **DAR EL MREISSE FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)**

- Design of Main entrance Protection using Accropodes blocks. (2008 - 2009)
- Supervision of Execution Works. (2009)
- Overall mass plan of the new port (Vertical concrete breakwater and Accropodes blocks). (2012)
- Design of the first phase of the breakwater works (Underwater concrete blocks with RC walls, platforms.). (2017)

• **MANARA FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)**

- Detailed Design of a new Fishing Port (Breakwater, quaywalls, platforms, fishermen rooms). (2014)

• **DALIEH FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)**

- Design of new cranes foundations and slipway rehabilitation works. (2008). Works executed in (2008)
- Design of Boats parking structure and port rehabilitation works. (2009 – 2010).
- Design and Supervision of a new port (new main breakwater with Accropodes armoring, quaywalls, slipway, Fishermen rooms, Fishermen syndicate building, lighting and water supply, basin dredging, slipway...). (2011 - - 2017)

• **HANTOUCH FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)**

- Design of temporary protection using Accropodes concrete blocks with basin dredging. (2008 - 2009)
- Design and master plan of a new Port. (2008 - 2009 - 2010)

• **OUZAI FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)**

- BOQ and method statements for steel and precast concrete pontoons. (2006)
- Design of Basin dredging (2009 - 2010) and Supervision of dredging Works. (2010)

• **SAIDA FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)**

- Design of works related to the basin dredging, fishermen rooms and waste water treatment system rehabilitation, facilities for tourists. (2004 - 2006). Works executed in (2006)

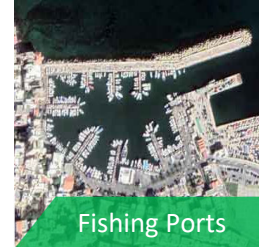
• **SARAFAND FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)**

- Bathymetric surveys. (2003)
- Design of Basin Dredging. (2009)
- Design and Supervision of basin dredging. (2010)

• **TYR FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)**

- Design of quay walls, pontoons. (2006 - 2007).
- Design of basin dredging and opening of existing conducts. (2008)
- Design of rehabilitation works related to damaged concrete breakwater head. (2008 - 2009)
- Design and Supervision of execution works related to the complete rehabilitation of the port: New precast concrete quay walls (L=260m), RC platforms, piers, basin dredging, existing breakwater rehabilitation with precast concrete Accropodes blocks armoring and new RC crown wall. (2010 - 2011 - 2012)





Fishing Ports

• **NAQOURA FISHING PORT (LEBANON – CLIENT : MPWT / DGLMT)**

- Design of basin dredging. (2008). Works executed in (2009)
- Design of 5T boat winch. (2008). Works executed in (2009)
- Overall master plan. (2011)
- Design of a new Fishing port (main breakwater with Accropodes armor, quay walls, RC platforms, basin dredging, fishermen rooms). (2014)

• **UMM SUQEIM 1 FISHING PORT (UAE – CLIENT : NAKHEEL – CLIENT : MEI)**

- Design of marine infrastructure (Two variants with rocks armoring and precast concrete Accropodes blocks and a third variant based on caissons solution). (2004)

• **UMM SUQEIM 2 FISHING PORT (UAE - CLIENT : NAKHEEL – CLIENT : MEI)**

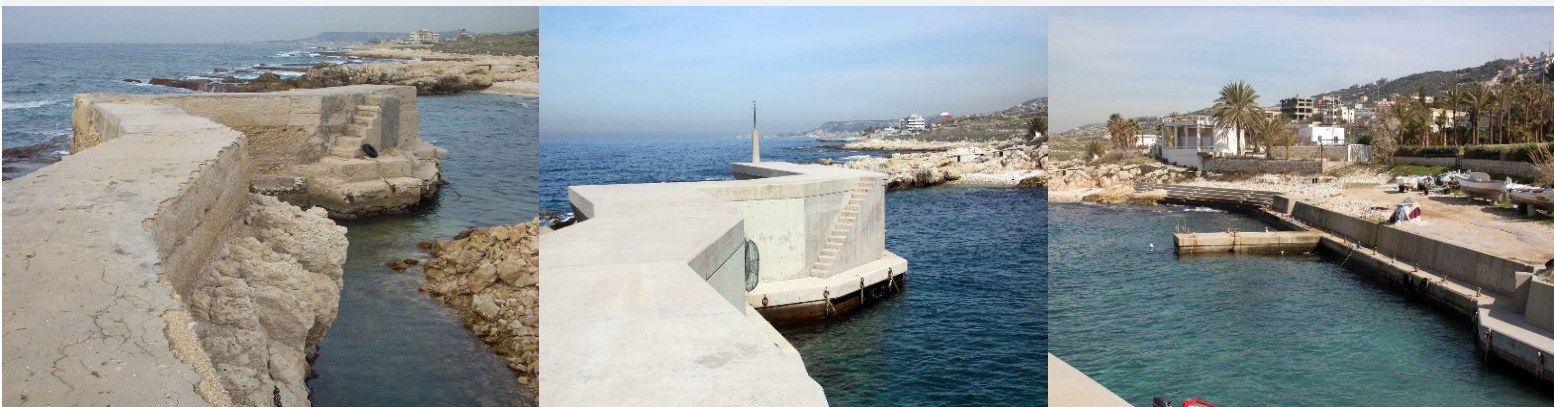
- Design of marine infrastructure (Two variants with rocks armoring and precast concrete Accropodes blocks and a third variant based on caissons solution). (2004 - 2005)

• **JUMEIRAH FISHING PORT (UAE - CLIENT : NAKHEEL – CLIENT : MEI)**

Design of marine infrastructure (Two variants with rocks armoring and precast concrete Accropodes blocks and a third variant based on caissons solution). (2004 - 2005)



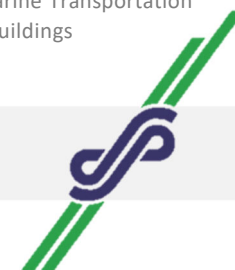
CHEKKA FISHING PORT



BERBARA FISHING PORT

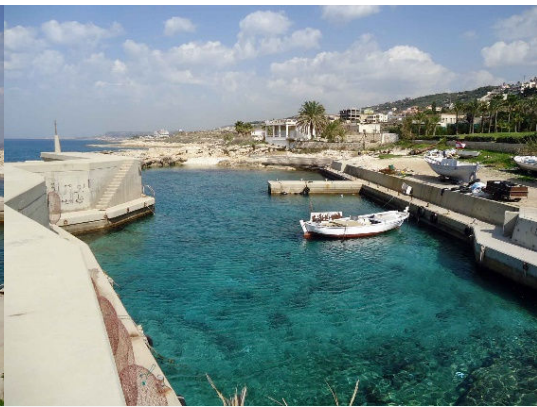
MPWT
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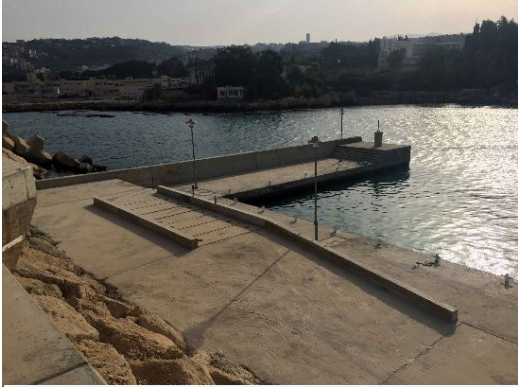
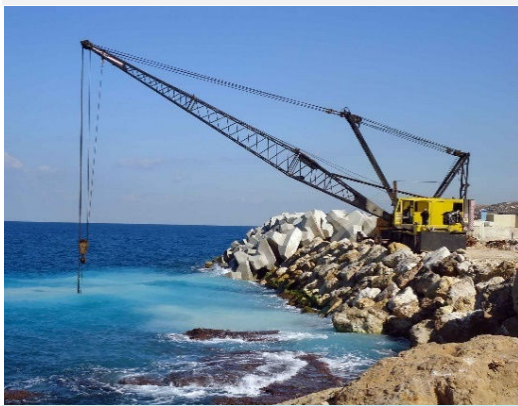




Fishing Ports

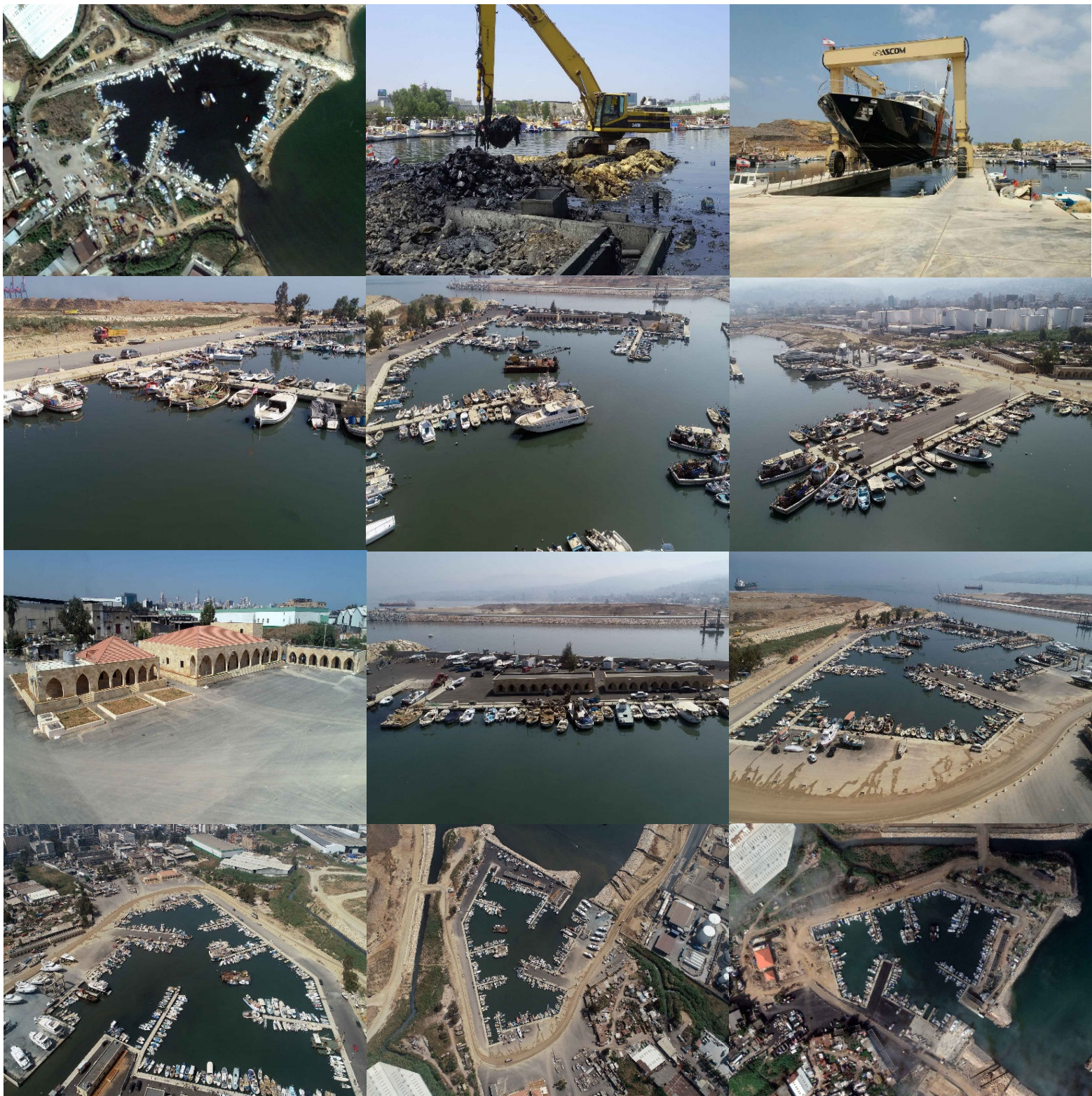


BERBARA FISHING PORT



AMCHIT FISHING PORT



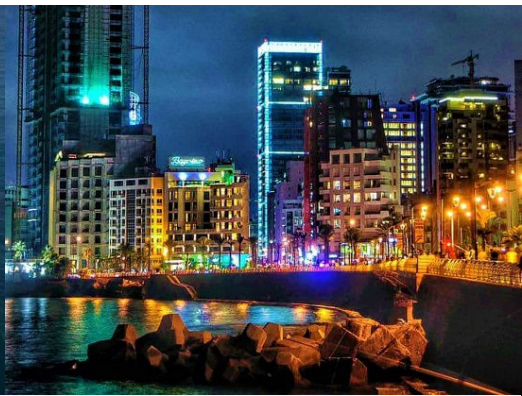
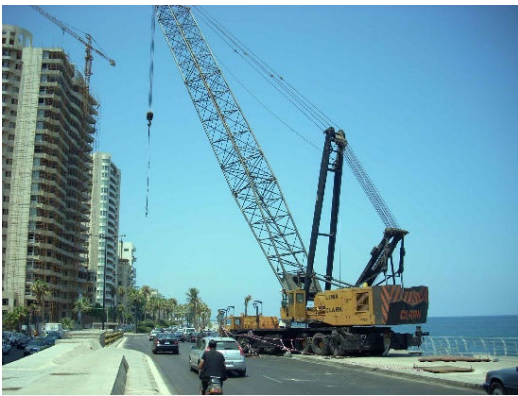


DORA FISHING PORT

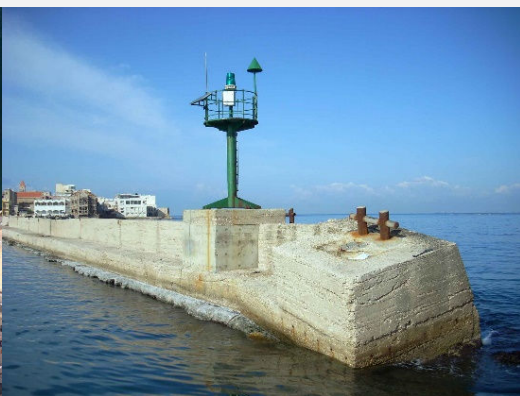
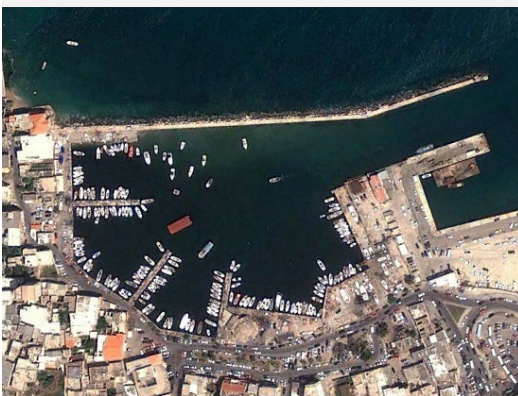




Fishing Ports



DORA FISHING PORT



TYR FISHING PORT



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THE END

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