Marine Ecology Institute

Education and Research in Residence

rumeli kavağı

ITU Department of Architecture
2020-2021 Spring Diploma Project
Jury C

jury members

Belkıs Uluoğlu Prof. Dr.
Mehmet Emin Şalgamcıoğlu Assoc. Prof. Dr.
Gülsüm Tanyeli Assis. Prof. Dr.
Oya Yeşim Armağan Res. Assis.
Öykü Bahar Balcı Res. Assis.

Tan Kamil Gürer Assoc. Prof. Dr.
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advisor

Bayram Öztürk Prof. Dr., İ.Ü. Aquatic Sciences

The underlying drive for this semester's diploma project is to increase awareness and emphasize respect for what exists around us considering both natural beings and built environment. This remarks to an understanding which considers architecture to be constructed not only on blank space, but to interact with what already is there. The main objective of this project is to design a place for learning and research, for the sustenance of marine life and the quality of sea water, and humans' relationship with the marine environment in Rumeli Kavağı, İstanbul. Participants of Jury C are expected to develop an enduring, adaptable and environmentally responsible building as well.

Istanbul Technical University
Faculty of Architecture
Department of Architecture
2020-2021 Spring
MIM 4902E Diploma Project
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1. Definition and Conceptual Frame of the Theme

The underlying drive for this semester's diploma project is to emphasize respect for what exists around us on earth, both natural and manmade – living organisms and built environment – when doing architecture. This remarks to an understanding which considers architecture to be constructed not only on blank space, but to interact with what already is there. The undertaking is to develop an enduring, adaptable and environmentally responsible building as well.

The theme is to design a place for learning and research, for the sustenance of marine life and the quality of sea water, and humans' relationship with the marine environment.

Research is considered to be carried out in three main areas: The first one, "biodiversity and conservation" aims to maintain the integrity of ocean ecosystems and manage their use, and develop appropriate strategies to prevent and reverse biodiversity collapse. It is about tracking changes and effects on marine life, including plants, animals and other organisms. The second one, "environmental biotechnology" studies how microbial ecosystems work and can be controlled. It is about the removal of pollutants from water, wastewater, sediment, or soil, capture of renewable resources, sensing contaminants or pathogens in the environment and protecting the public from dangerous exposure to pathogens. Finally, the third field, "marine archeology", aims to study and understand the relationship between the marine environment and human societies.

The place chosen for this project is Rumeli Kavağı, Sarıyer.

1- biodiversity and conservation

Genetic biodiversity, species diversity and ecosystem, overfishing research; assessment, mapping and modelling of ecosystem services covering the interdisciplinary areas of marine biology and aquatic resources: microbiology, biogeochemistry, etc.; fisheries research and application; aquaculture.

> Fish ecology and functioning of aquatic ecosystems
> Applied research in fishery and aquaculture
> Genetic research in fishery and aquaculture

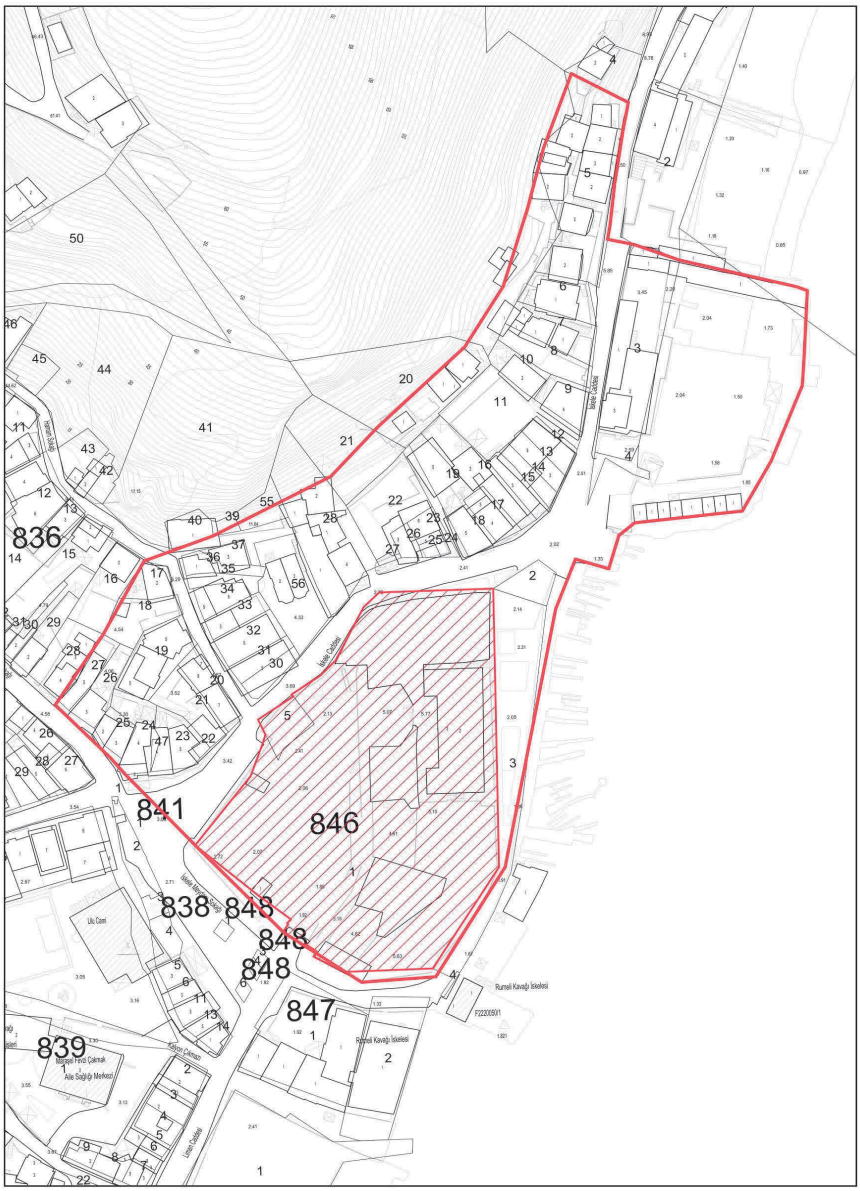
2- environmental biotechnology

Sea water quality analysis, pollution and climate research, distribution of substances in sediment, environmental toxicology covering the interdisciplinary areas of marine chemistry, environmental engineering, biochemistry, hydro physics, hydraulics, hydrology, etc.

3- marine archeology

Underwater harbor and settlement archeology, sunken ship research and excavation, and research on underwater cultural heritage, collecting artifacts covering archeologists, architects, art historians, conservation and restoration experts.

Rumeli Kavağı, Sarıyer; Site and Surroundings



The 1/1000 scale map showing the plot boundaries is attached to the file.

The shaded area is a registered cultural property area in accordance with the decision of the Ministry of Culture and Tourism, Istanbul No: III Regional Board for the Protection of Cultural Heritage, 01.06.2017-3574*. Project proposals are expected to be evaluated accordingly.

*https://korumakurullari.ktb.gov.tr/Eklenti/52834,010620173574pdf.pdf?0

2. Aim and Scope

Diploma project, as an essential phase of architectural education, aims to bring the students into adequate architectural knowledge, reasoning, skills and decision-making mechanisms. It aims to validate that each student has acquired the understanding and competence necessary for the architectural profession. It requires the demonstration of the knowledge and skills to produce an architectural solution and to make design decisions about a single project as well as a comprehensive integration and consideration of design knowledge and decisions across systems, scales and disciplines. The diploma project consists of the student projects, 3 jury sessions to be held throughout the semester, and a final review. The final product is expected to culminate from the program defined in the brief. The semester-long design process concludes with an outcome of an architectural project reflecting students' performances, intellectual actions, and their approach to architectural research and analyses within a given scope. The development of each student is examined and improved through jury evaluations and critics.

- **Project:** The project will be the outcome of the students' studies on the given subject and especially their personal arguments and efforts. The result is expected to be developed in guidance of the specified architectural program, urban context and other conditions concerning the location and program.
- **Jury Sessions:** The project developed by the students will be presented to the jury members at the indicated dates. All the drawings and other requested documents should be prepared for the sessions, in order to be reviewed and evaluated by the jury. In these sessions the jury members will share their critics and comments on the proposals. All the material that will be presented should be handed over personally to the evaluation committee three days before the indicated date, until 18:00 via Ninova system. On the day of the jury session, all the students are expected to be present at 09:30 for the jury to review the poster presentations. The reviewing order of the projects will be determined on the jury day. Participation is mandatory.
- **Final Jury:** Final Jury will be held for the presentations and explanations of the completed projects. Besides that, the jury members may ask students various questions in order to gain insight about the students' approach. The project is not regarded as the sole input for evaluation. The final evaluation and grading include all the stages, i.e. the final project, preliminary and final juries together; the project should not be regarded as the single input for the final evaluation.

The student needs to meet the Prerequisites for the Graduation Project (MIM 492, MIM 492E) or the Diploma Project (MIM 4902, MIM 4902E) in the curriculum and 'Other Requirements' determined by the Senate. For the general rules not written in the Diploma Project Principles, the "Senate Principles" are valid related to taking the Diploma Project, submissions and examinations of the Diploma Project.

Links below must be checked:

https://www.mimogis.itu.edu.tr/duyurular/ogduyuru.htm

https://www.mimogis.itu.edu.tr/duyurular/belgeler/fk_karar.pdf

https://www.mimogis.itu.edu.tr/duyurular/belgeler/önşart_tablo.pdf

http://www.sis.itu.edu.tr/bitirme_onsart.htm

https://www.sis.itu.edu.tr/TR/mevzuat/bitirme-esaslar.php

3. Evaluation

Jury sessions have a 40% effect, the final submission and the final jury has a 60% effect on total grading*. Students, who do not enter more than one jury, are evaluated with VF grade. Students, who fail to submit their final project, or, submit and not join the final jury, are considered unsuccessful (FF). For the Diploma Project to be considered successful, a minimum (CC) grade must be obtained. Jury members will also realize an evaluation for each jury sessions and for the final jury according to the criteria below and according to the Course Catalog Form:

- Attendance to jury, workshop and board sessions,
- Personal evaluation of the design problem, ability of approaching design problems in a multidimensional way, performance of carrying out the whole design process in a critical way,
- Expected competence in establishing relations of design decisions with context, program and spatial-formal-tectonic layout,
- Adequate usage of representation tools in the production, development and communication of design concepts, competence in multidimensional representation media,
- Submission of required materials both for the jury session and final submission.

*This content will change with the new decisions taken by the coordination of the diploma project and department of architecture.

4. Schedule

Date	Time		Location
March 03, 2021 Wednesday	13:30	Submission of Diploma Project briefs and meeting with students	Zoom
March 10, 2021 Wednesday	14:00	Seminar by Gizem Dörter, Ph.D. on Historicity of Rumeli Kavağı	Zoom
March 10, 2021 Wednesday	17:00	Deadline for submitting written questions	Head of Department, Ninova
March 17, 2021 Wednesday	13:30	Announcement of the answers	Ninova
April 04, 2021 Sunday	until 18:00	Submission of 1st Jury documents	Ninova
April 07, 2021 Wednesday	**09:30-17:30**	**1st JURY**	Zoom
May 02, 2021 Sunday	until 18:00	Submission of 2nd Jury documents	Ninova
May 05, 2021 Wednesday	**09:30-17:30**	**2nd JURY**	Zoom
May 30, 2021 Sunday	until 18:00	Submission of 3rd Jury documents	Ninova
June, 02 2021 Wednesday	**09:30-17:30**	**3rd JURY**	Zoom
June 27, 2021 Sunday	until 18:00	Submission of Final Jury documents	Ninova
July 01, 2021 Thursday	**09:30-17:30**	**FINAL JURY**	Zoom

*All additional activities including seminars will be announced later.

5. Documents to be given to Students

Diploma Project Brief: A digital copy of the brief and all related documents (maps, photographs, etc.) will be shared via official Ninova system. Additional cloud storage services might be used for larger files and submissions.

6. Required Materials for Jury Evaluation

The materials for jury evaluation are specified both for students and jury sessions. Jury members may ask additional contents from students for their process through juries. For the final jury, students are expected to provide the materials described in the Article 7 of the Diploma Project Principles in minimum.

<u>Requirements for the 1st JURY:</u>

- **Approach to the theme** and place based on research. Planning decisions; relation of the site with the environment; site specific issues. **Ideas, concepts and decisions** that were improved through research and analyses for the project proposal and scenarios for the whole of the urban area (schemas, diagrams, drawings, texts, photographs, perspectives, models, collages, films, etc.)
- Development and detailing of the **building program** with possible scenarios (diagrams).
- **Site plan** within the general context of the region that shows the main characteristics of architectural and landscape design decisions - a masterplan (1/2000) and site plan (1/1000, 1/500).
- **Plans, sections, elevations and silhouettes** of urban and architectural design decisions that discuss the programmatic and architectural design concept with spatial proposals for life scenarios using appropriate scale (1/500).
- **Physical model** While students will not deliver physical models, they are expected to make physical models.
- **Storyboard** – that expresses the life and atmosphere of the proposed design, shows the relations between events and spaces, interiors and exteriors (5-10 sequences).
  +
- **A3 Portfolio** An A3 booklet will be submitted as a summary of the whole process of the work done for the 1st jury including the architectural design report attached.

Presentation boards will be in 16:9 ratio for screen sharing during online jury sessions via Zoom. There must be a scale bar in every presentation board.

<u>*Requirements for the 2nd JURY:*</u>

- **Approach to the theme** and place based on research. Planning decisions; relation of the site with the environment; site specific issues. **Ideas, concepts and decisions** that were improved through research and analyses for the project proposal and scenarios

for the whole of the urban area (schemas, diagrams, drawings, texts, photographs, perspectives, models, collages, films, etc.).

- **Site plan** using appropriate scale (1/1000 and 1/500-including relations w/ the immediate surrounding) and **silhouettes**.
- Diagrams including structural system and construction elements; materials; climatic decisions; lighting issues.
- **Plans, sections,** and **elevations** (1/200).
- Diagrammatic **3D drawings** (digital models, perspectives, collages, etc.) that demonstrate the atmosphere of the proposed design and spatial order.
- **Physical model** While students will not deliver physical models, they are expected to make physical models.

  +
- **A3 Portfolio** An A3 booklet will be submitted as a summary of the whole process of the work done for the 2nd jury including the architectural design report attached.

Presentation boards will be in 16:9 ratio for screen sharing during online jury sessions via Zoom. There must be a scale bar in every presentation board.

Requirements for the 3rd JURY:

- **Approach to the theme** and place based on research. Planning decisions; relation of the site with the environment; site specific issues. **Ideas, concepts and decisions** that were improved through research and analyses for the project proposal and scenarios for the whole of the urban area (schemas, diagrams, drawings, texts, photographs, perspectives, models, collages, films, etc.).
- **Site plan** using appropriate scale (1/1000 and 1/500-including relations w/ the immediate surrounding) and **silhouettes**.
- **Plans, sections,** and **elevations** (1/200).
- Diagrams including structural system and construction elements; materials; climatic decisions; lighting issues.
- **Sections** that show subsystems i.e. structural systems, building element systems, service systems and their components (materials) in 1/50 scale.
- **System detail drawing** (partial system section, partial plan and partial elevation), including one typical section which comprises structural system, building element system, service system and their components (materials and details) in 1/20 scale.
- Diagrammatic **3D drawings** (digital models, perspectives, collages, etc.) that demonstrate the atmosphere of the proposed design and spatial order.
- **Physical model** While students will not deliver physical models, they are expected to make physical models.

  +
- **A3 Portfolio** An A3 booklet will be submitted as a summary of the whole process of the work done for the 2nd jury including the architectural design report attached.

Presentation boards will be in 16:9 ratio for screen sharing during online jury sessions via Zoom. There must be a scale bar in every presentation board.

Requirements for the FINAL JURY:

- **Approach to the theme** and place based on research. Planning decisions; relation of the site with the environment; site specific issues. **Ideas, concepts and decisions** that were improved through research and analyses for the project proposal and scenarios for the whole of the urban area (schemas, diagrams, drawings, texts, photographs, perspectives, models, collages, films, etc.).
- **Site plan** using appropriate scale (1/1000 and 1/500-including relations w/ the immediate surrounding) and **silhouettes**.
- **Plans, sections,** and **elevations** (1/200).
- Diagrams including structural system and construction elements; materials; climatic decisions; lighting issues.
- **Sections** that show subsystems i.e. structural systems, building element systems, service systems and their components (materials) in 1/50 scale.
- **System detail drawing** (partial system section, partial plan and partial elevation), including one typical section which comprises structural system, building element system, service system and their components (materials and details) in 1/20 scale.
- Diagrammatic **3D drawings** (digital models, perspectives, collages, etc.) that demonstrate the atmosphere of the proposed design and spatial order.
- **Physical model** While students will not deliver physical models, they are expected to make physical models.
  +
- **A3 Portfolio** An A3 booklet will be submitted as a summary of the whole process of the work done for the 2nd jury including the architectural design report attached.

Presentation boards will be in 16:9 ratio for screen sharing during online jury sessions via Zoom. There must be a scale bar in every presentation board.

After a selection, diploma projects will be exhibited online that will be announced later.

7. Presentation Guidelines

The size for the presentation boards is 16:9 ratio & in horizontal position, in .PDF file format*. The ground level plans, sections, and elevations must include the immediate surroundings, transportation (vehicle and/or pedestrian) connections and close landscape of the building. The method of presentation is on students' choice, provided that the students themselves prepare and present the material themselves. Drawing methods, use of manual or digital representation techniques, 3D modeling of the project proposal and use of color is left to the decision of the student. In addition to these, students are advised to submit properly formatted documents, if sketches, graphics and textual descriptions describing the process are to be used. Posters will be prepared with a consideration of the project integrity, and ease of exhibition and preservation. Also, each poster, layout plan and model will be organized from the same viewing direction graphically. Expressing the architectural project in its entirety and authenticity will be taken into consideration in evaluations.

Project documents will be uploaded to the Ninova system. Documents should not exceed 50 MB size per file. For A3 exhibition, Faculty Archive and NAAB documents, a template will be shared with students via Ninova again.

*(For some tips about optimizing your PDF files, you can visit https://darch.itu.edu.tr/tips-pdf-optimization/?lang=en.)

8. Program

Students are expected to further develop the given conceptual framework of the building program with regard to their architectural proposals. Program sizes and square meters can be changed by ±10 percent.

ENTRANCE(S) **250 sq.mt.**

Public entrances/gates

Help desk

Multi-purpose space / Lounge

ADMINISTRATION **250 sq.mt.**

Rooms for directors/managers, assistants, accounting, secretary, financial affairs, etc.

RESEARCH **3500 sq.mt.**

a) Labs – core, group

- **Chemistry Labs**

  Chemistry Lab(s)

  Toxicology Lab for water pollution and quality

  Chemical Storage

  Equipment Preparation Room

- **Marine Biology Labs**

  Microbiology Lab(s)

  Marine Resources Lab(s) (Wet /Dry) (consists of two parts as dry and wet laboratories, there is an infrastructure for sorting, storing and analyzing samples. There are various coolers and deep freezers, scales that can measure with different sensitivities, sieves with various mesh openings, various laboratory materials and chemicals in the laboratory. In addition, there are tools and equipment such as soft tissue microtome, heating tray and paraffin dispenser for histological studies.)

  Conditioned Cabin: the cabin in which the necessary climatic conditions are created in order to provide the ideal environment for living creatures.

  Aquatic Biology Lab(s)

Biologic Equipment Storage

Biologic Equipment Preparation Room

- **Underwater Archeology Lab(s):**

Labs including wet space for washing/drying artifacts and table space to layout samples for analysis.

Chemical laboratory

Equipment storage

Sorted collections storage

- **Hydrophysics & Hydraulics Lab(s)**

- **Computational Lab and Modelling Lab(s)** with high capacity computers for data analysis, storage and models.

b) Pools

- Fresh water pool
- Sea water pool
- Aquaculture: Recirculating Aquaculture Systems (RAS) multiple tanks of 1.8, 2.4 and 3.7 meters diameter (2.3, 4.2 and 12.9 cubic meters in volume)

c) Offices featuring common spaces for impromptu encounters among researchers, contributing to an atmosphere of intellectual exchange. Spaces for conversations and meetings on differing degrees of communication are needed, which means;

- "shared space" for people to join the conversation and communicate knowledge and ideas;
- individual study stations or office cells in relation with these shared space.

d) Common Spaces – encouraging informal activities and exchange of ideas

- Breakout spaces, beverage stations, social space, gym

EDUCATION 800 sq.mt.

- Seminar/ meeting rooms
- Teaching Labs with projector and equipment
- Library
- Auditorium / conference room (150 persons)

ACCOMODATION & HOSTING FACILITIES 800 sq.mt.

Long-term stay / Short-term stay should be considered.

- Shared Kitchen & Lounge
- TV Room
- Common Laundry
- Floor offices (cleaning, laundry)

- Staff rooms (changing, shower + WC)
- Boarding rooms, breakfast room, internet; tv room, living room, etc.
- Dining Hall and Kitchen

MUSEUM **800 sq.mt.**

A museum proposal is expected to be related to the public life of Rumeli Kavağı

a) underwater archeology

b) marine biodiversity

SUPPORT/TECHNICAL SPACES
800 sq.mt.

- Service entrances for goods receiving, personnel entrance, entrance for kitchen, disposal gates for biological wastes
- Documentation
- Security
- Data center
- Technical spaces: HVAC, storage, switchboard, generator & transformer room
- Garbage storage and disposal
- Cleaning Rooms
- Pool technical rooms, Pump house
- Sea water intake, Reservoir
- Pier/deck and warehouse for equipment in/out of the sea

Sub total **7200 sq.mt.**

CIRCULATION **2880 sq.mt.**

40% of the total program area

TOTAL (without parking) **10080 sq.mt.**

PARKING

Open and/or indoor parking for 150 vehicles. 22 sq.mt/vehicle including circulation area.

TOTAL **13380 sq.mt.**

+

SHOP(S) - Books, music, equipment, etc. about marine life; restaurant/café.

OPEN SPACES

Aquatic garden & aquaponics unit

Informal gathering spaces, temporary exhibition areas

9. Recommended Books and Materials

General Information About the Bosphorus and Rumeli Kavağı

Aysu, Ç. (1994). Rumelikavağı. *Dünden Bugüne İstanbul Ansiklopedisi*. Cilt 6, s. 359-60.

Aysu, Ç. (1973). *Boğaziçi ve Çevresinin Doğal Yapısı*. İstanbul Boğazı ve Çevresi Sorunları Sempozyumu, İstanbul, 12-15 Kasım, s. 49-68.

De Tchihatchef, P. (2000). *İstanbul ve Boğaziçi* (A. B. Berktay Çev.) İstanbul: Tarih Vakfı Yurt Yayınları.

Dörter, G. (2010). A Future for the Upper Bosphorus: A Historical Survey of the Upper Bosphorus, and a Proposal for a Sustainable Heritage Management Plan (Master's thesis). Koç University, Graduate School of Social Sciences, İstanbul.

Erinç, S. (1973). Doğal Ortam Ve Sonuçları, İstanbul Boğazı Ve Çevresi Sorunları Sempozyumu, İstanbul, 12-15 Kasım, s. 27-48.

Salman, S. Y. (2004). Boğaziçi Tarihi Sit Alanının Yok Olma Süreci Ve Kalan Sınırlı Değerlerin Korunma Olasılıkları (Doktora tezi). İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, İstanbul.

Yazıcı, Y. (1993). *Bütün Yönleriyle Boğaziçi'ndeki Cennet Sarıyer*. İstanbul: Form Yayınları.

Maps and Old Photographs

Office of Navigation, Hydrography and Oceanography, Istanbul.

Rumelikavağı by Guillaume Berggren dated 1880 from IAE (Istanbul Research Institute) archives. Rumelikavağı.
https://i.pinimg.com/originals/f2/cd/01/f2cd01b540f489fa5de3ab457450015e.jpg

The Bosporus (1898). Published at the Admiralty 20th Octr. 1871; Engraved by Edwd. Weller. University of Wisconsin-Milwaukee Libraries, American Geographical Society Library Digital Map Collection, https://uwm.edu/libraries/digital-collections/copyright-digcoll/

The Bosporus (Bosphorus) (1915). Surveyed by Messrs. C. H. Ploix and Manen 1854 under the direction of Admiral Hamelin of the French. SALT Araştırma, https://archives.saltresearch.org/handle/123456789/114904

The Strait of Bosphorus, present-day seafloor morphology. Modelling the provenance of detritus flushed through the Strait of Bosphorus, Turkey, during early Holocene outflow from the Black Sea to the world ocean - Scientific Figure on ResearchGate. Available from: https://www.researchgate.net/figure/A-Shaded-relief-map-of-the-paleomorphology-of-the-Strait-of-Bosphorus-at-the_fig12_317871537

Marine Environment in Istanbul

Çoban, D., Demircan, M.D., Tosun, D.D. (Eds.) (2020). Marine Aquaculture in Turkey: Advancements and Management. Istanbul: Turkish Marine Research Foundation (TUDAV) Publication No: 59.

Oral, N., & Öztürk, B. (Eds.). (2006). The Turkish Straits: Maritime Safety, Legal and Environmental Aspects. Istanbul: Turkish Marine Research Foundation (TUDAV), Publication No: 25.

Özsoy, E., Çagatay, M. N., Balkıs, N., Balkıs, N., & Öztürk, B. (2016). The Sea of Marmara; Marine Biodiversity, Fisheries, Conservation and Governance. Istanbul: Turkish Marine Research Foundation (TUDAV), Publication No: 42.

Özsoy, E. & Ünlüata, Ü. (1997). Oceanography of the Black Sea: a review of some recent results. Earth-Science Reviews, 42: 231–272.

Öztürk, B. & Öztürk, A. A. (2005). Biodiversity in the Black Sea: Threats and the future. Mankind and the oceans. Tokyo: United Nations University Press, pp.155-171.

Öztürk, B. & Yerli, S. (Eds) (2002). Natural Heritage of Turkey. İstanbul: Turkish Marine Research Foundation (TUDAV), Publication No: 10.

Sezgin, M., Bat, L., Ürkmez, D., Arıcı, E., Öztürk. B. (Eds) (2017). Black Sea Marine Environment: The Turkish Shelf. Istanbul: Turkish Marine Research Foundation (TUDAV), Publication No: 46.

Ünlü, S., Alpar, B., Öztürk, B. (Eds) (2018). Oil Spill along the Turkish Straits Sea Area; Accidents, Environmental Pollution, Socio-Economic Impacts and Protection. Istanbul: Turkish Marine Research Foundation (TUDAV), Publication No: 47.

Zaitsev, Y. & Öztürk, B. (Eds) (2001). Exotic Species in the Aegean, Marmara, Black, Azov and Caspian Seas. Istanbul: Turkish Marine Research Foundation (TUDAV).

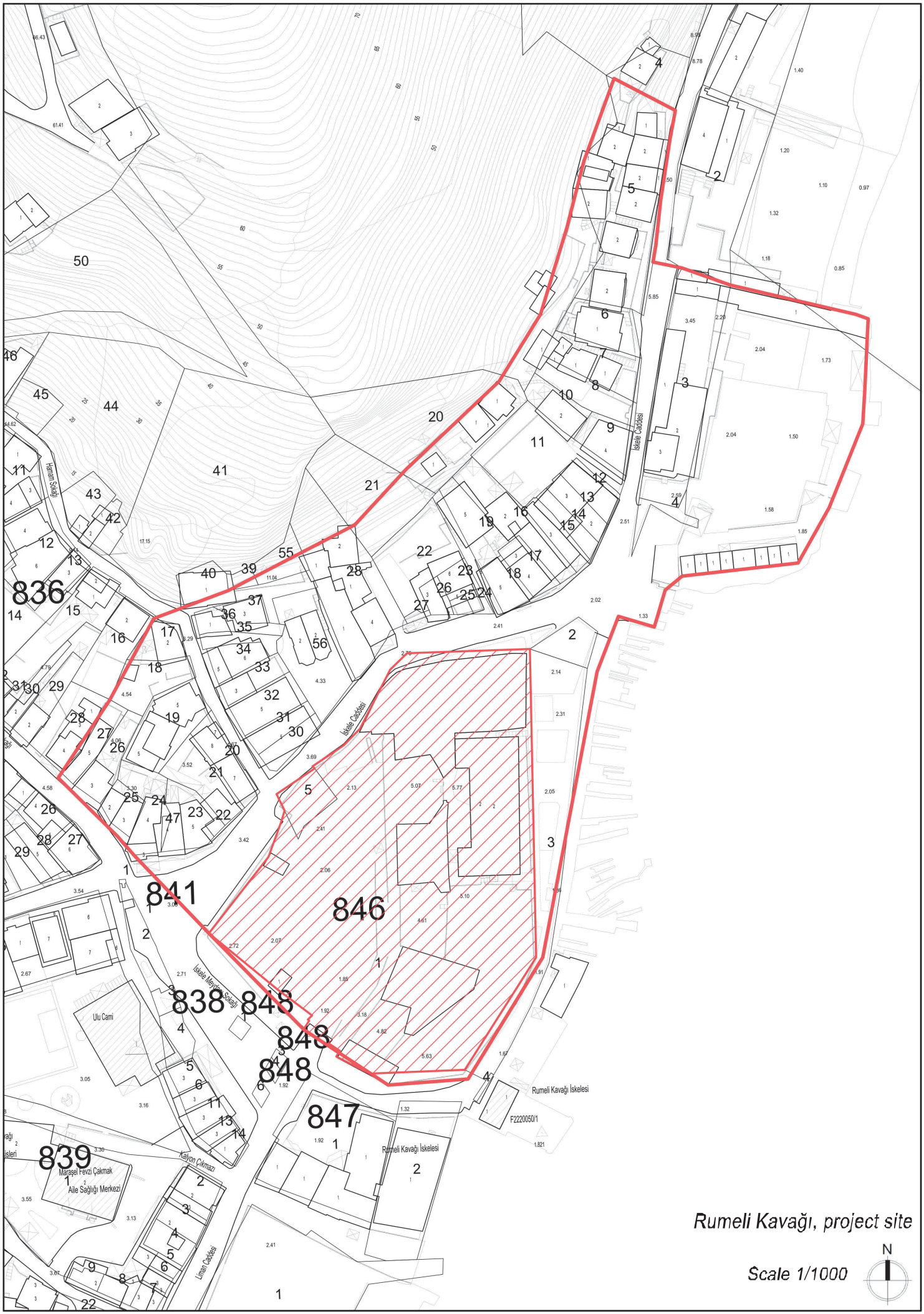
https://tudav.org/en/

https://yayakarsa.org/bu-canlilara-dikkat/tespit-edilen-deniz-analari/

Some Research Institute Precedents

- Virginia Institute of Marine Science, Via Design Architects
- Oregon State University, Hatfield Marine Science Center
- Institute of Marine Sciences and Technology - Dokuz Eylül University
- Institute of Marine Sciences - METU, Mersin
- CIESM The Mediterranean Science Commission, Karadeniz Technical University
- MARE, Marine and Environmental Sciences Center
- Coastal Marine Research Station / Martin Hurtado Arquitectos
- UNC Coastal Studies Institute / Clark Nexsen
- NOAA Southwest Fisheries Science Center / Gould Evans

- International Accommodation Center For The Oceanological Observatory / Atelier Fernandez & Serres
- Marine Research Center, Bali
- Northeastern University, UC Santa Cruz Marine Science Campus
- SCRIPPS Institution of Oceanography, Marine Biology Division, UC San Diego.
- FIO/Florida Institute of Oceanography.



Rumeli Kavağı, project site

Scale 1/1000

N