

UNESCO Chair on Coastal Geo-Hazard Analysis

*Research Institute for Earth Sciences
Geological Survey of Iran*

Annual Report 2025



2025
October
Annual Report



UNESCO Chair on
Coastal Geo-Hazard Analysis

Research Institute for Earth Sciences
Geological Survey of Iran



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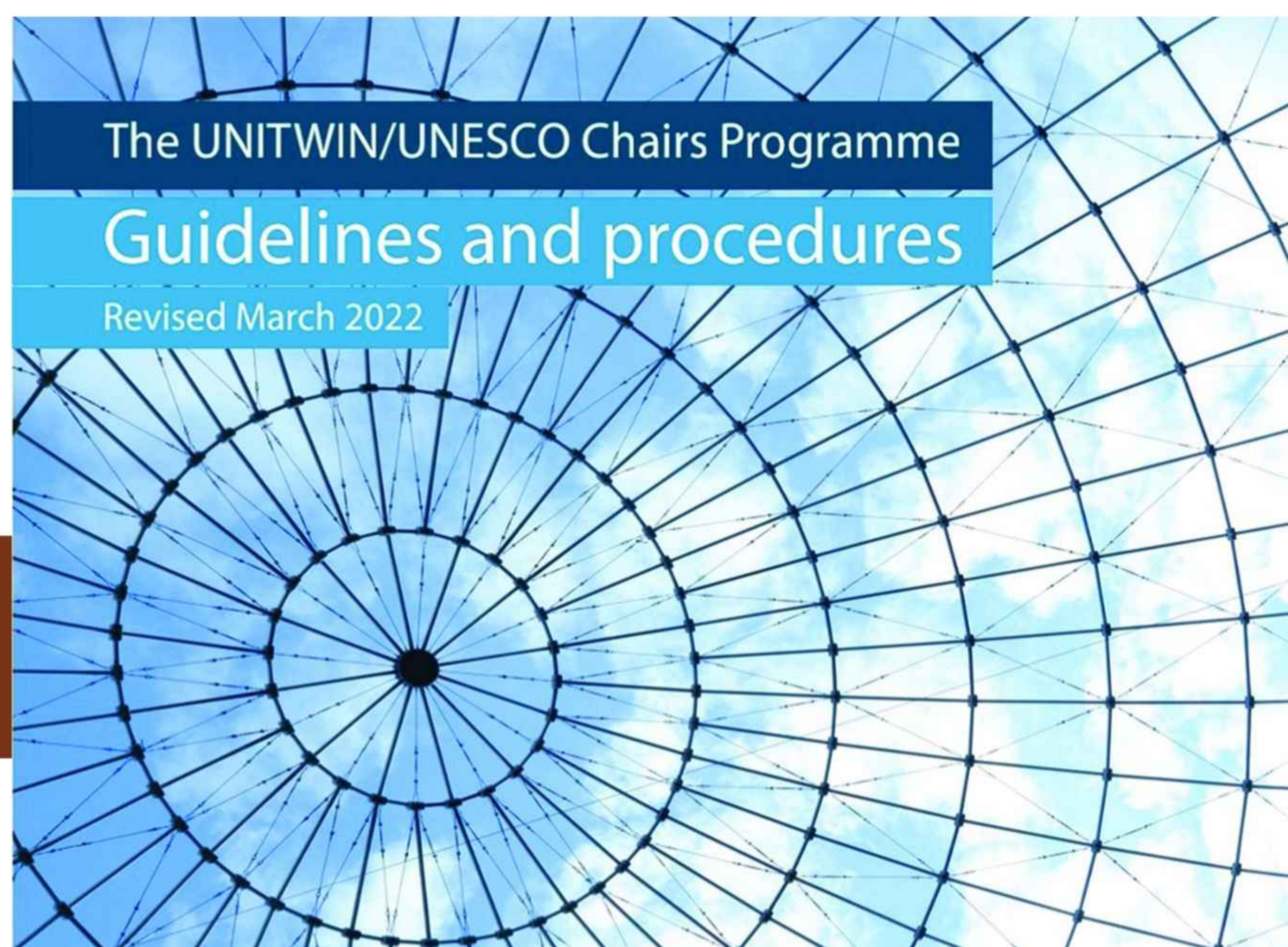
UNESCO Chairs

The UNITWIN/UNESCO Chairs programme harnesses the expertise of higher education and research institutions to tackle the interconnected challenges of a complex world. Established in 1992, it aims to build academic networks and promote inter-university cooperation through cross-border knowledge transfer. UNITWIN serves as a unique intellectual and strategic resource, uniting around 900 institutions from over 120 countries to enhance the connection between research and development policy at national, regional, and global levels. The programme facilitates the exchange of ideas and best practices, creating platforms for dialogue and collaboration among researchers, policymakers, and practitioners. This dynamic interaction is essential in tackling global challenges such as climate change, sustainable development, education equity, and public health crises. Through capacity building and knowledge sharing, the UNITWIN/UNESCO Chairs initiative empowers institutions to contribute effectively to the Sustainable Development Goals (SDGs). In its ongoing commitment to fostering innovation and inclusivity within higher education, UNITWIN promotes interdisciplinary approaches that encapsulate diverse perspectives from various fields. By leveraging the strengths of its network, the programme champions research that is not only academically rigorous but also socially relevant and impactful. The annual meetings and workshops facilitated by the initiative serve as vital forums for sharing insights, experiences, and collaborative opportunities. As we look ahead to October 2025, the focus will remain on enhancing the synergy between academic institutions and societal needs, ensuring that research translates into real-world solutions. The programme's commitment to inclusivity and diversity will further be emphasized, inviting a broader spectrum of voices and experiences to enrich the discourse on global challenges. Overall, the ongoing work of the UNITWIN/UNESCO Chairs programme underscores the importance of strategic partnerships and the sharing of knowledge across borders. It reaffirms our shared belief that higher education plays a crucial role in shaping a more equitable and sustainable future for all. With the collective expertise of its partners, UNITWIN aspires to create transformative outcomes that resonate at local, national, and international levels.

Annual report October 2025

(modified after guidelines and procedures, revised March 2022)

2025



PREFACE 2025

Executive office

Preface:

The escalating climate crisis is driving a global shift away from carbon emissions towards sustainable development and biological resilience through clean, renewable energy. Key elements of climate conventions aim to enhance technology localization, infrastructure, and knowledge dissemination by 2030. Meanwhile, the rise of "Artificial Intelligence" creates a paradox of progress and regression, often obscured by rhetoric similar to trends in geosciences. Tackling these challenges requires generating essential geological information linked to wealth creation, national capital protection, resource management, risk assessment, and land preparation. Geological maps are crucial, reflecting a region's geologic profile, and many countries assign their creation to government agencies, geological surveys, universities, research institutions, and the private sector. The rapid progression of technological sciences in the 21st century intensifies the needs of a growing global population, particularly in disadvantaged nations, driving sustainable industrial development, agriculture, food security, and wealth accumulation as indicators of resilience and power. Contradictions remain in the global struggle for human values versus autocracy, war versus peace, and the fight for fundamental rights, as highlighted in the annual UNESCO report on Coastal Geo-Hazard Analysis. In this complex governance landscape, the divide between empathy and oppression becomes clearer. Communities worldwide face the consequences of authoritarian rule, where dissent suppression hinders individual and collective progress. Despite the challenges from militaristic agendas and geopolitical tensions, grassroots movements for peaceful resolutions and social equity are gaining momentum. As we explore these contradictions, it becomes clear that the quest for fundamental human rights often conflicts with national interests masquerading as security, and the rhetoric of freedom often rings hollow against the harsh realities faced by marginalized groups.

The UNESCO Chair on Coastal Geo-Hazard Analysis highlights the importance of environmental justice in human rights advocacy, noting that ecological degradation disproportionately affects vulnerable populations. In today's uncertain times, a multifaceted approach to conflict resolution and human rights is essential. Educational institutions, global organizations, and civil societies must come together to promote dialogue over discord. Collaborative efforts are crucial to uphold dignity, equity, and sustainability against autocracy and division. As these challenges arise, we must stay vigilant and committed to peaceful coexistence and human dignity for all. In 2025, as in the past, we not only envisioned and implemented new international studies on coastal geo-hazards but also advanced interdisciplinary sciences and innovative technologies, exemplified by our successful Geological Mapping and AI initiatives, particularly the Server-based Unified Thematic Geological Mapping in Central Iran, Naïen Project (SUTGMN Programme).

We have established a global research network that transcends gender and belief systems to inspire change and enhance the expertise of the younger generation. This initiative goes beyond academia; it calls for collaboration and innovation to address pressing global challenges. By harnessing the diverse skills of geoscientists, sociologists, economists, and environmentalists, we aim to create holistic frameworks that promote sustainable practices and policies. Our multidisciplinary approach is essential, as the challenges we face are intertwined with ecological, social, and economic systems. Additionally, advancing geological assessment technologies is central to our mission. Innovations such as remote sensing, machine learning, and big data analytics provide unprecedented opportunities for rapid and precise geological information analysis. By democratizing access to these tools, we empower communities in vulnerable regions to actively engage in their own development and resilience strategies, enhancing local knowledge that is vital for crafting tailored solutions to specific regional challenges.

As we approach 2025, we remain committed to spreading knowledge by connecting scholarly research with community engagement through workshops, educational programs, and open-access publications. Knowledge should flow freely across borders and institutions to foster a global culture of informed stewardship. These initiatives will raise awareness of geological risks and encourage communal responsibility for the planet's health. Policymakers play a vital role in shaping regulations for resource management and environmental protection. Our ongoing discussions with governments highlight the importance of integrating scientific evidence into decision-making to ensure policies align with ecological needs and socio-economic realities. The relationship between science and governance must evolve to create adaptable frameworks for emerging challenges. While we celebrate our progress, we acknowledge persistent inequities, as climate change disproportionately affects marginalized communities, making them more vulnerable to geological hazards and economic hardships. Addressing these disparities is both an ethical obligation and crucial for achieving sustainable development goals. Our strategy must be inclusive, building partnerships with indigenous groups, local NGOs, and grassroots movements that provide essential insights and leadership. Ultimately, we envision a future where our collective efforts lead to actionable insights that enrich global discussions on climate resilience and sustainable practices. By forging strong alliances across all sectors, we aim to shift the narrative surrounding coastal geo-hazards and environmental sustainability from despair to proactive engagement and hope. Together, we will create a legacy of resilience, knowledge, and empowerment for future generations.

The year 2025 emerged from the UNESCO Annual Conference held at the African Union in Addis Ababa in late 2024, leading to strengthened relations and communication with the Iranian National Commission for UNESCO, the Iranian UNESCO Chairs assembly, and UNESCO Category 2 Regional Centers in Iran and Russia. Unfortunately, this year was marked by the pain of war and the threat of terror, which left many grieving due to civilian casualties, including women and children.



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Graphic Designer: Mehrnoosh Poorsaeed
Editors: Zeinab Kazemi nia



REMARKS BY THE VICE MINISTER AND DIRECTOR GENERAL OF THE GEOLOGICAL SURVEY OF IRAN (GSI)



Prof. Dariush Esmaeili

The Vice Minister of Industry, Mine and Trade and the Director General of the Geological Survey of Iran (GSI) highlight the organization's dedication to improving understanding of the country's geological heritage through scientific research, detailed mapping, and resource assessment.

The Geological Survey of Iran, established in 1959, aims to provide essential geological data and expertise for natural resource management, environmental protection, and disaster risk reduction. Over the past 6 decades, the GSI has integrated cutting-edge laboratories and advanced Artificial Intelligence (AI) technologies into its operations, significantly enhancing data analysis, hazard prediction, and resource exploration capabilities. Recognizing the interconnectedness of global challenges, The GSI actively engages in international collaborations aimed at promoting sustainable development. Through knowledge-sharing and the adoption of global best practices, the GSI leverages AI innovation to ensure responsible stewardship of Earth's resources while strengthening resilience against geological hazards for current and future generations.

The GSI will officially begin producing geological maps in 2025 through the AI program: Server-Based Unified Thematic Geological Mapping (SUTGM).

As Director General, I take great pride in the important role of the UNESCO Chair on Coastal Geo-Hazard Analysis at our Research Institute for Earth Sciences, established on December 3rd, 2021. This Chair exemplifies our dedication to advancing scientific knowledge, building capacity, and fostering international collaboration in coastal geo-hazard assessment and management.

Given the increasing vulnerability of coastal regions to natural hazards like tsunamis, storm surges, and erosion, dedicated research and practical solutions are critical. Our institute, through the UNESCO Chair has led efforts that combine advanced scientific research with applied technology to bolster resilience and preparedness in Iran and the surrounding region.

As we approach the Chair's renewal from 2026 to 2030, I am confident that our ongoing leadership and partnership with UNESCO will enhance interdisciplinary research, knowledge exchange, and training opportunities. This renewal will build on our previous achievements and reinforce our commitment to protecting coastal communities from geo-hazards, contributing to sustainable development and disaster risk reduction objectives regionally and globally.

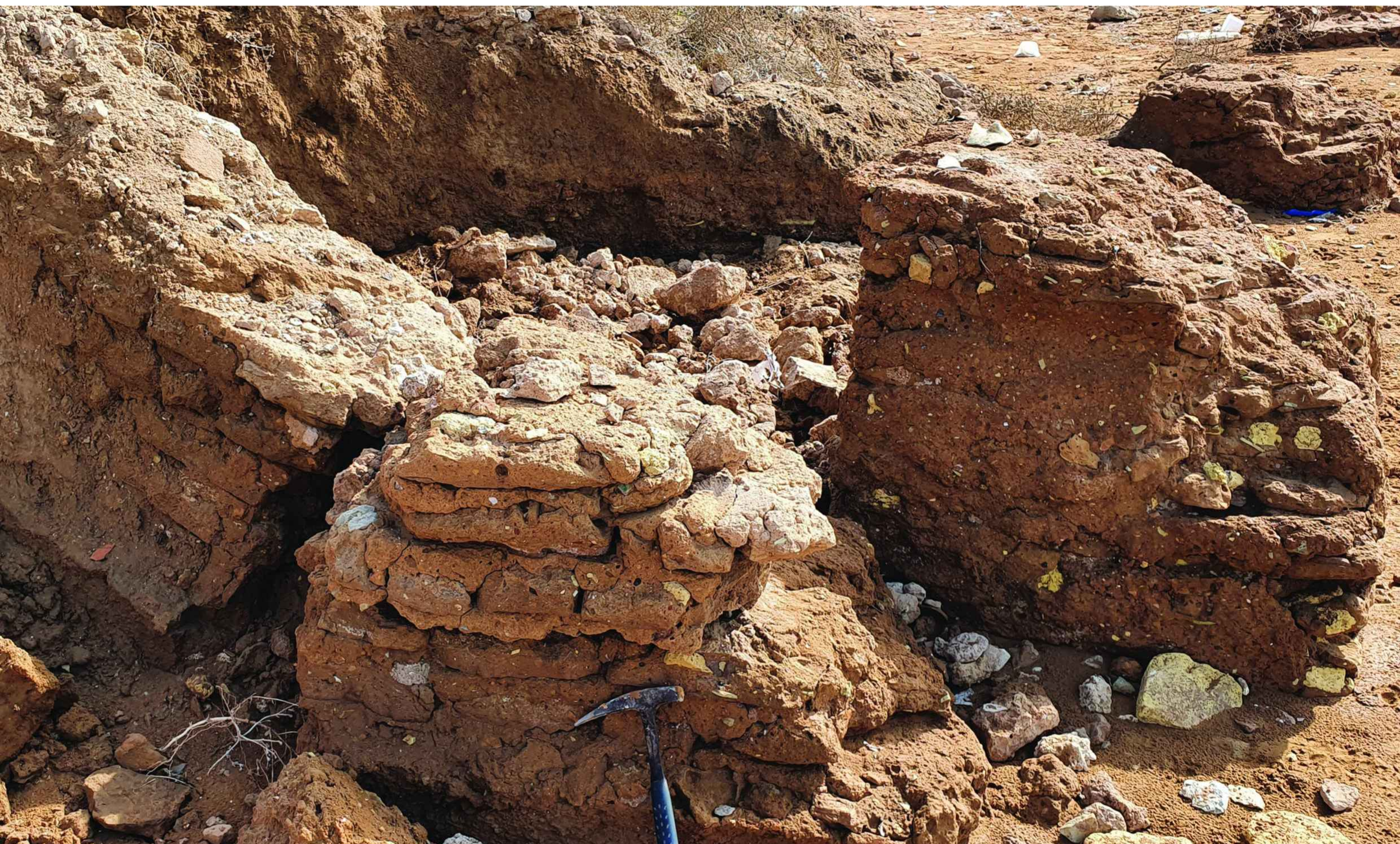
The UNESCO Chair has achieved significant success in its first four years, participating in various international research projects, signing 41 memorandums of understanding with universities, research centers, and private employers in mining, geology, and civil engineering. Its accomplishments also include hosting numerous monthly lectures and workshops, publishing 37 books and annual bulletins, and actively engaging in UNESCO's annual programs.

The Geological Survey of Iran as an active member in International Union of Geological Sciences (IUGS), International Geoscience Programme (IGCP), International Geoscience Education Organization (IGEO), Deep-Time Digital Earth (DDE) and the Middle-East branch of Commission for the Geological Map of the World (CGMW) will continue to support UNESCO's mission and UNESCO Chair on Coastal Geo-Hazard Analysis by promoting resilience, preserving cultural heritage. Future initiatives will strengthen interdisciplinary research in geoarchaeology, paleoclimatology, seismic hazard analysis, and AI-driven geological mapping, generating actionable insights to address evolving challenges in coastal and environmental systems.

Building on the achievement of the Persian Carpet Project (2001–2025), The GSI is proud to once again support the UCCGHA in launching two major proposed international projects namely SUTGMM and AI-GEOARCH.

So, we anticipate continued support from UNESCO and our international partners as we pursue innovation, collaboration, and excellence in coastal geo-hazard analysis in the coming years.





Remarque du Vice-Ministre et Directeur Général du Service Géologique d'Iran (GSI)

Le Vice-Ministre de l'Industrie, des Mines et du Commerce et le Directeur Général du GSI soulignent l'engagement de l'organisation à améliorer la compréhension du patrimoine géologique iranien par la recherche scientifique, la cartographie détaillée et l'évaluation des ressources. Depuis sa création en 1959, le GSI fournit des données et une expertise géologique pour la gestion des ressources naturelles, la protection de l'environnement et la réduction des risques de catastrophe. Au cours des six dernières décennies, il a intégré des laboratoires de pointe et des technologies d'intelligence artificielle, renforçant ainsi ses capacités d'analyse, de prévision des risques et d'exploration des ressources. Reconnaisant les défis mondiaux interconnectés, le GSI collabore activement au développement durable par le partage de connaissances et l'adoption des meilleures pratiques. Il utilisera l'innovation en IA pour assurer une gestion responsable des ressources, tout en renforçant la résilience face aux risques géologiques, avec le lancement de cartes géologiques prévu en 2025 grâce au programme d'IA SUTGM.

En tant que Directeur Général, je suis fier du rôle de la Chaire UNESCO d'analyse des géorisques côtiers au sein de notre institut, créée le 3 décembre 2021. Cette chaire démontre notre engagement à avancer la science, renforcer les capacités et promouvoir la collaboration internationale sur les géorisques côtiers. Face à la vulnérabilité croissante des régions côtières aux catastrophes naturelles, notre institut, par l'intermédiaire de la Chaire, a mené des recherches combinant sciences avancées et technologies appliquées pour améliorer la résilience en Iran et dans la région.

À l'approche du renouvellement de la Chaire de 2026 à 2030, je suis convaincu que notre partenariat avec l'UNESCO enrichira la recherche interdisciplinaire, l'échange de connaissances et les formations. Ce renouvellement reposera sur nos succès passés et notre engagement à protéger les communautés côtières, contribuant ainsi aux Objectifs de développement durable et à la réduction des risques.



La Chaire UNESCO a connu un grand succès en quatre ans, participant à des projets internationaux et signant 41 protocoles d'accord avec des universités et des centres de recherche dans les secteurs minier, géologique et du génie civil. Ses réalisations incluent l'organisation de nombreuses conférences, la publication de 37 ouvrages et bulletins annuels, et une participation active aux programmes de l'UNESCO.

Le GSI, actif au sein de l'Union internationale des sciences géologiques, du Programme international de géosciences, Programme international de géosciences (PICG), Organisation internationale pour l'enseignement des géosciences (IGEO), Deep-Time Digital Earth (DDE) et la branche Moyen-Orient de la Commission pour la carte géologique du monde (CCGM) et d'autres organisations, soutiendra la mission de l'UNESCO et la Chaire en favorisant la résilience et la préservation du patrimoine culturel. Les futures initiatives renforceront la recherche interdisciplinaire en géoarchéologie, paléoclimatologie, analyse des risques sismiques et cartographie géologique pilotée par l'IA, générant des connaissances essentielles pour les défis environnementaux côtiers. Fort de ses réalisations avec le projet Tapis Persan, le GSI est fier de contribuer à deux grands projets internationaux : SUTGMM et AI-GEOARCH.

Nous comptons sur le soutien continu de l'UNESCO et de nos partenaires internationaux pour favoriser l'innovation, la collaboration et l'excellence dans l'analyse des géorisques côtiers dans les années à venir.

REMARKS BY DIRECTOR OF THE RIES



Prof. RAZYEH LAK

The Research Institute for Earth Sciences (RIES) with over two decades of professional educational and research experience, is well known by distinguished faculty members and motivated researchers. This precious scientific background in the field of geology, natural hazards, environmental geology, mineral resources, geo-archaeology as well as the numerous scientific publications, in particular its official position and its relations with the Geological Survey of Iran (GSI) allowed RIES to be designated as the proposed host for a new UNESCO Chair in Coastal Geo-Hazards Analysis, which was finally approved in December 2021 by UNESCO. It could also be marked as a great honor for RIES, GSI and Iran.

Due to the serious growth of the environmental crisis in the world, especially on coastal areas, the UNESCO Chair in Coastal Geo-Hazards Analysis (UCCGHA) was created with the main objective of achieving sustainable coastal development by as the most sensitive ecosystem. Providing appropriate solutions to research, cultural and educational challenges, documenting information in the field of coastal geo-hazards and facilitating cooperation between students, researchers and academics is one of the prominent objectives of UCCGHA. Fortunately, the UNESCO Chair on Coastal Geo-Hazard analysis has been largely supported by many scientists and academic members from universities and research institutes several countries such as Australia, Japan, China, Russia, Oman, Armenia, Germany, the Netherlands, Italy, France, the United Kingdom, Venezuela and Iran, which allowed us to organize an international scientific council at the start of the activities. The conclusion of various memorandums of understanding with academic, executive, pedagogical and private departments, the establishment of public and specialized training programs at the international level are among the Chair's three-year achievements. Close cooperation with UNESCO in programs and activities related to the recognition of coastal hazards and risks, such as the effects of climate and global warming on beaches and wetlands, Geo-environmental pollution, Tsunamis, Earthquakes, Floods, Erosion and sedimentation in coastal areas, Sea level fluctuations and finally helping sustainable development and increasing the resilience of the coasts are other objectives of the UCCGHA. The ongoing efforts of the UCCGHA are grounded in a multidisciplinary approach, bringing together expertise from various fields such as geology, ecology, engineering, and social sciences. This collaborative framework aims to foster innovative research that addresses the intricate relationships between human activities and coastal environments. In this context, the Chair emphasizes the importance of integrating traditional knowledge with modern scientific practices, thereby enriching the discourse on sustainable coastal management.

One of the key initiatives under the UCCGHA is the establishment of monthly as well as annual international webinar conferences that serve as platforms for knowledge exchange among experts, practitioners, and policymakers. They provide an opportunity for participants to engage in dialogue about potential strategies for mitigating risks and enhancing the resilience of coastal communities. In addition to academic contributions, the UCCGHA seeks to implement outreach programs that target local communities, raising awareness about coastal hazards and fostering a culture of preparedness. By collaborating with local governments and non-governmental organizations, the Chair strives to develop educational resources that cater to the specific vulnerabilities and needs of different coastal populations. This community-centric approach aligns with the broader goal of promoting sustainable coastal development through informed participation and engagement of local stakeholders. Moreover, the UCCGHA is actively involved in research projects aimed at advancing technological innovations for monitoring and predicting coastal hazards. By harnessing the latest advancements in remote sensing, data analytics, and modeling techniques, the Chair aspires to enhance our understanding of coastal dynamics and improve risk assessment capacities. These initiatives underscore the importance of using scientific knowledge to inform policy decisions that safeguard both human lives and the delicate ecosystems upon which coastal communities depend. Through its comprehensive array of activities and collaborations, the UCCGHA stands as a beacon of hope in the face of escalating environmental challenges. The collective commitment of the scientific community, supported by strategic partnerships, paves the way for building resilient coastal regions that can adapt to changing conditions and thrive amidst adversity. The Chair is poised to make significant contributions to the global dialogue on coastal sustainability, ensuring that future generations inherit safely managed and flourishing coastal ecosystems.





Remarque du directeur de RIES

L'Institut de recherche en sciences de la Terre (RIES), fort de plus de vingt ans d'expérience en enseignement et recherche, est réputé pour ses professeurs éminents et chercheurs passionnés. Son expertise en géologie, risques naturels, géologie environnementale, ressources minérales et géoarchéologie, ainsi que ses nombreuses publications scientifiques et sa collaboration avec le Geological Survey of Iran (GSI), ont conduit à sa désignation comme hôte d'une nouvelle chaire UNESCO dédiée à l'analyse des géo-risques côtiers, approuvée en décembre 2021. Cet honneur est une fierté pour le RIES, le GSI et l'Iran. Dans le contexte de la crise environnementale mondiale, notamment dans les zones côtières, cette chaire vise un développement durable des écosystèmes côtiers. Elle a pour objectifs de fournir des solutions aux défis de recherche, culturels et éducatifs, de documenter les géo-risques côtiers et de favoriser la coopération entre étudiants, chercheurs et universitaires. La chaire a reçu un large soutien international de scientifiques et d'académiques d'Australie, du Japon, de Chine, de Russie, d'Oman, d'Arménie, d'Allemagne, des Pays-Bas, d'Italie, de France, du Royaume-Uni, du Venezuela et d'Iran, permettant l'organisation d'un conseil scientifique international dès le début de ses activités. Au cours de sa troisième année, la chaire a signé divers protocoles d'accord avec des institutions académiques, exécutives et privées, et a instauré des programmes de formation publics et spécialisés à l'échelle internationale.



Elle collabore étroitement avec l'UNESCO sur des programmes liés à la reconnaissance des risques côtiers, tels que les impacts du changement climatique sur les plages et zones humides, la pollution géo-environnementale, les tsunamis, tremblements de terre, inondations, érosion, sédimentation et fluctuations du niveau de la mer, tout en visant à renforcer la résilience des côtes. L'UCCGHA vise à collaborer étroitement avec l'UNESCO sur des programmes liés à la reconnaissance des risques côtiers, notamment les effets du changement climatique sur les plages et zones humides, la pollution, les tsunamis, les tremblements de terre, les inondations, l'érosion, la sédimentation et l'augmentation de la résilience côtière. Son approche multidisciplinaire combine expertise en géologie, écologie, ingénierie et sciences sociales pour promouvoir une recherche innovante sur les interactions entre activités humaines et environnements côtiers. La chaire souligne l'importance d'intégrer les savoirs traditionnels avec les pratiques scientifiques modernes pour enrichir la gestion durable des côtes. Parmi ses principales initiatives, l'UCCGHA organise des conférences internationales mensuelles ainsi qu'annuelles facilitant le partage de connaissances entre experts, praticiens et décideurs, favorisant des discussions sur la mitigation des risques côtiers. En outre, elle met en œuvre des programmes de sensibilisation pour les communautés locales, en collaboration avec des gouvernements et ONG, afin de développer des ressources adaptées aux besoins spécifiques des populations côtières. Cette démarche communautaire soutient un développement côtier durable par l'implication éclairée des parties prenantes locales. L'UCCGHA participe également à des projets de recherche sur les technologies de surveillance et de prévision des risques côtiers, exploitant les avancées en télédétection et en modélisation pour améliorer notre compréhension de la dynamique côtière. Ces initiatives valorisent l'utilisation des connaissances scientifiques pour orienter des politiques qui protègent les vies humaines et les écosystèmes fragiles. À travers ses activités et collaborations, l'UCCGHA incarne un espoir face aux défis environnementaux croissants, avec un engagement collectif pour construire des régions côtières résilientes, capables de prospérer malgré l'adversité. La chaire est prête à contribuer au dialogue mondial sur la durabilité côtière, assurant un avenir où les écosystèmes côtiers restent florissants et bien gérés.

REMARKS BY CHAIR HOLDER



Prof. HAMID NAZARI

The United Nations Educational, Scientific and Cultural Organization (UNESCO) fosters global peace through cooperation and communication, playing a vital role in education, infrastructure development, and international collaboration. It helps establish fundamental infrastructures in less developed regions, with UNESCO Chairs serving as a key element of this mission.

The UNESCO Chair on "Coastal Geo-Hazard Analysis" (UCCGHA) was officially launched on December 3, 2021 (ED/FLI/21/160) and is affiliated with the Research Institute for Earth Sciences (RIES) and the Geological Survey of Iran (GSI). This Chair essentially supports research on Coastal Geo-Hazard Analysis in the Persian Gulf, Oman Sea, and Caspian Sea, enhancing educational networks and research through international collaboration and knowledge sharing. Achievement of the UCCGHA symbolizes a significant milestone in scientific guidance and regional networking, facilitating technology and knowledge transfer.

To ensure transparency and access to information, the Chair has formed partnerships with media, universities, research institutions, NGOs, and private companies, leveraging a broad international network. As part of the fifth generation of universities, the UCCGHA excels in global scientific collaboration, supported by an international scientific council. This interdisciplinary approach has resulted in numerous joint research projects and Ph.D. theses. Through workshops, seminars, and collaborative initiatives, strategic alliances with international entities will foster shared learning and encourage the exchange of best practices across borders. This cooperation is essential for developing innovative solutions suited to the unique ecological and socio-economic challenges faced by the regions involved. Committed to enhancing its global education and research contributions, the Chair provides a platform for dialogue, transforming knowledge into actionable insights for a sustainable and resilient future.

The fourth year of the UNESCO Chair coincided with a devastating conflict in the Middle East between Iran and Israel. On behalf of the UCCGHA, I strongly condemn this ongoing conflict, which results in tragic losses, particularly among scientists, academics, and civilians. The war, which began on June 13, exacerbates radicalism and militarism, jeopardizing the continuity of international scientific research and undermining the essential spirit of cooperation and mutual trust needed for collective progress. This situation presents significant environmental risks, including the threat of nuclear contamination, affecting not only the Middle East but the entire planet. Only through peace, justice, and freedom can we achieve a sustainable and prosperous future for all.

Remarques du titulaire de la chaire

L'Organisation des Nations Unies pour l'éducation, la science et la culture (UNESCO) promeut la paix mondiale par la coopération et la communication, jouant un rôle essentiel dans l'éducation, le développement des infrastructures et la collaboration internationale. Elle contribue à la mise en place d'infrastructures fondamentales dans les régions moins développées, les chaires UNESCO étant un élément clé de cette mission.

La chaire UNESCO « Analyse des géorisques côtiers » (UCCGHA) a été officiellement lancée le 3 décembre 2021 (ED/FLI/21/160) et est affiliée à l'Institut de recherche en sciences de la Terre (RIES) et au Service géologique d'Iran (GSI). Cette chaire soutient principalement la recherche sur l'analyse des géorisques côtiers dans le golfe Persique, la mer d'Oman et la mer Caspienne, en renforçant les réseaux éducatifs et la recherche grâce à la collaboration internationale et au partage des connaissances. La création de l'UCCGHA marque une étape importante dans l'orientation scientifique et le réseautage régional, facilitant ainsi le transfert de technologies et de connaissances.

Afin de garantir la transparence et l'accès à l'information, la chaire a noué des partenariats avec des médias, des universités, des instituts de recherche, des ONG et des entreprises privées, s'appuyant ainsi sur un vaste réseau international. Membre de la cinquième génération d'universités, l'UCCGHA excelle dans la collaboration scientifique mondiale, soutenue par un conseil scientifique international. Cette approche interdisciplinaire a donné lieu à de nombreux projets de recherche conjoints et thèses de doctorat.

Par le biais d'ateliers, de séminaires et d'initiatives collaboratives, des alliances stratégiques avec des entités internationales favoriseront le partage des connaissances et encourageront l'échange de bonnes pratiques au-delà des frontières. Cette coopération est essentielle au développement de solutions innovantes adaptées aux défis écologiques et socio-économiques spécifiques auxquels sont confrontées les régions concernées. Engagée à renforcer ses contributions mondiales en matière d'éducation et de recherche, la Chaire offre une plateforme de dialogue, transformant les connaissances en perspectives concrètes pour un avenir durable et résilient.

La quatrième année de la Chaire UNESCO a coïncidé avec un conflit dévastateur au Moyen-Orient entre l'Iran et Israël. Au nom de l'UCCGHA, je condamne fermement ce conflit en cours, qui entraîne des pertes tragiques, notamment parmi les scientifiques, les universitaires et les civils. La guerre, qui a débuté le 13 juin, exacerbe le radicalisme et le militarisme, compromettant la continuité de la recherche scientifique internationale et sapant l'esprit de coopération et de confiance mutuelle indispensable au progrès collectif. Cette situation présente des risques environnementaux importants, notamment la menace d'une contamination nucléaire, qui touche non seulement le Moyen-Orient, mais la planète entière. Seule la paix, la justice et la liberté nous permettront de garantir un avenir durable et prospère pour tous.



BIOGRAPHY STATEMENT

CHAIRHOLDER



Affiliation: Research Institute for Earth Sciences, Geological Survey of Iran

Biography: Birthday February 18th 1968, Tehran-Iran

Languages: Persian, French and English

Diploma: HDR in the Sciences of the Universe "Analyse de la tectonique active en Iran: Approches morphotectonique et paleoseismologique. Implication en termes d'aléa sismique." Université de Montpellier, Montpellier-France (2015)

PhD in Geology "Analyzing the recent and active tectonics in Central Alborz and Tehran region using morphotectonics and paleoseismology" University of Montpellier II, Montpellier-France (2006)



Born on February 18, 1968, in Tehran, Iran, I am fluent in Persian, French, and English. I have held the UNESCO Chair in Coastal Geo-Hazard Analysis since 2021 and previously served as Vice-Director and Deputy in Research at the Research Institute for Earth Sciences (RIES) from 2009 to 2021. Currently, I lead the Innovation Department at RIES. I earned my Bachelor's and Master's degrees in Geology from Iranian universities, followed by a PhD in Paleoseismology from Université Montpellier II (2002-2006). I completed a Post Doctorate in Active Tectonics at Cambridge University (2007-2011) and obtained my HDR (Habilitation à Diriger des Recherches) in Science of the Universe from Université de Montpellier in 2015. With over thirty years of experience at the Geological Survey of Iran (GSI) and RIES, I am also a social activist and socio-political analyst in Iranian media. I have extensive experience in international scientific collaborations in geohazards, geo-archaeology, paleoclimatology, and more recently, machine learning and AI in geological mapping. As a UNESCO Chairholder, I work closely with the United Nations Educational, Scientific and Cultural Organization and have numerous publications in WOS. My research interests span a wide array of topics, including the interplay between geological processes and their impacts on human societies. I have dedicated a significant portion of my career to understanding the risks posed by coastal geo-hazards, particularly in regions vulnerable to seismic activity and climate change. My work aims to bridge the gap between scientific research and practical applications, ensuring that communities are better prepared for natural disasters. In addition to my academic pursuits, I have actively engaged in public outreach and education, believing that informed communities are crucial for resilience against geohazards. I frequently participate in workshops and conferences, both nationally and internationally, to disseminate knowledge and foster collaboration among scientists, policymakers, and local stakeholders. My commitment to social responsibility drives me to advocate for sustainable practices in environmental management and disaster preparedness.

Throughout my career, I have been fortunate to mentor numerous students and young researchers, guiding them in their academic journeys and encouraging their contributions to the field of Earth sciences. This mentorship not only enriches the academic community but also ensures the continuity of innovative research in geohazards and related disciplines. As I look to the future, I am particularly excited about the integration of machine learning and artificial intelligence into geological studies. These technologies hold immense potential for enhancing data analysis and predictive modeling, ultimately leading to more effective risk assessment and mitigation strategies. I am eager to explore these advancements further, collaborating with interdisciplinary teams to push the boundaries of our understanding of geological phenomena. My ongoing projects include studying the historical seismicity of various regions, utilizing geo-archaeological methods to uncover past events that have shaped the landscape and human settlements. By combining traditional geological techniques with modern technology, I strive to provide a comprehensive view of how natural forces interact with human activity over time.

In conclusion, my journey in the field of Earth sciences has been marked by a commitment to research, education, and social impact. As I continue to contribute to the scientific community and engage with broader societal issues, I remain dedicated to advancing our understanding of coastal geo-hazards and their implications for the future.



MISSION

MISSION AND GOALS OF THE UCCGHA

The UNESCO Chair on Coastal Geo-Hazard Analysis (UCCGHA) was established as a competitive policy for labeling Integrated Geo-Hazard Research Sites, with two main objectives:

- 1** To create new operational conditions for translational research in coastal geology, optimizing and accelerating knowledge production.
- 2** To promote the dissemination and application of this knowledge in coastal hazard assessment and sustainable development, increasing community resilience along shorelines.

Hosted by the Research Institute for Earth Science (RIES), affiliated with the Geological Survey of Iran (GSI), the UNESCO Chair brings together professionals from universities, research institutes, and public and private organizations to facilitate knowledge transfer and localization. UCCGHA encompasses a wide array of research approaches focusing on enhancing understanding, training, monitoring, and prevention of natural hazards both onshore and offshore. Officially launched in February 2022 after its establishment in December 2021, the Chair comprises an international scientific council and a national executive council.

The Scientific Council is tasked with defining strategic policies, providing spiritual and facilities support, and promoting convergence and integration in academic, educational, and research sectors aligned with UNESCO's mission. Meanwhile, the Executive Council, along with its specialized sub-committees including International Relations, Education, Publishing, Data Management, and Research Implementation is responsible for networking, securing support, facilitating services, and compiling an annual training calendar and periodic reports in line with UNESCO standards.

The Executive Council is structured with a Chairman, Secretariat, Steering Board, and specialized sub-committees. The board of directors, led by the executive director, formulates policies and supervises the performance of sub-committees to achieve the Chair's goals in alignment with the mission outlined by the Scientific Council. The Secretariat serves as the structural link among the Executive Council members and specialized committees. The UNESCO Chair on Coastal Geo-Hazard Analysis (UCCGHA) fosters collaboration among stakeholders by organizing workshops, conferences, and training sessions that encourage interdisciplinary dialogue and knowledge-sharing. These events aim to gather insights from global experts in coastal hazard assessment, mobilizing innovative solutions to pressing environmental challenges.

In addition to capacity-building initiatives, the Chair prioritizes the development of research methodologies and tools that can be adopted by coastal communities. By leveraging local knowledge alongside scientific research, UCCGHA strives to co-create strategies that enhance community preparedness and response capabilities to coastal hazards, such as erosion, flooding, and storm surges.

Key to the Chair's mission is fostering partnerships with governmental entities, non-governmental organizations, and local communities. These partnerships not only ensure the relevance of research outcomes but also help integrate scientific findings into policy frameworks, promoting sustainable coastal management practices.

Moreover, the Chair emphasizes the importance of education and public awareness campaigns to elevate understanding of coastal risks among diverse audiences. By developing educational materials and resources tailored to different community groups, UCCGHA seeks to empower

residents to actively participate in resilience-building initiatives. As part of its ongoing efforts, CGHA will continuously evaluate the effectiveness of its programs and research outputs, aligning them with global standards and best practices in geo-hazard management. This commitment to excellence will guide the Chair in adapting to emerging challenges and ensuring its relevance in the ever-evolving landscape of coastal geo-hazard analysis. In conclusion, the UNESCO Chair on Coastal Geo-Hazard Analysis embodies a holistic approach to addressing coastal hazards, bringing together diverse expertise to create a framework that not only prioritizes scientific research but also emphasizes practical application in the field.

By fostering collaboration, integrating local knowledge, and promoting education, the Chair aspires to build a resilient future for coastal communities worldwide.



OBJECTIVE

The objectives of the UCCGHA

- Promote collaboration among centers, expert groups, and communities to prevent radicalization in Iran and worldwide.
- Provide high-level expertise and innovative research based on evidence and best practices to shape public policy and devise local, national, and international strategies against radicalization and violent extremism.
- Apply AI in interdisciplinary geological methods and hazard assessments.
- Strengthen the capabilities of key stakeholders, especially in research, within schools and communities both online and offline.
- Boost public and media awareness, visibility, and knowledge transfer. Foster educational programs and workshops aimed at enriching understanding of the factors contributing to radicalization, equipping individuals with the tools needed to critically assess extremist narratives.
- Enhance resilience within vulnerable communities by implementing grassroots initiatives that encourage dialogue, inclusivity, and mutual respect among diverse groups.
- Create a comprehensive framework for monitoring and assessing the effectiveness of interventions designed to counter radicalization, ensuring approaches are adaptable and responsive to emerging challenges.
- Leverage partnerships with technology firms and academic institutions to harness cutting-edge digital solutions that track and mitigate online extremism, while maintaining fundamental human rights.
- Encourage the integration of diverse perspectives in combating radicalization by elevating the voices of marginalized communities and amplifying their contributions to the discourse on peaceful coexistence and conflict resolution.



INFRASTRUCTURE AND FLOW CHART OF THE CHAIR

This scientific and cultural event presents an opportunity for networking and collaboration, fostering an international network of research centers and fifth-generation universities.

Understanding the significance of this event in obtaining the UNESCO World Chair, particularly in leveraging the UNITWIN university network, can catalyze advancements in geological sciences and instill hope within the geological community.

The UNITWIN program is essential for capacity building in higher education and research, promoting knowledge exchange grounded in international solidarity. UNESCO's strategy for developing scientific institutes focuses on enhancing South-North, South-South, and multilateral cooperation. Academic and research institutions, alongside NGOs and public-private partnerships, play a crucial role in advancing higher education. The UNESCO Chair on Coastal Geo-Hazard Analysis (CGHA) aims to develop an education and research network on geohazards, particularly in seismic coastal regions, leveraging international support for knowledge sharing and capacity building. Its establishment serves as a competitive initiative to label integrated geo-hazard research sites, with the primary objective of:

1. To create new operational conditions for translational research in coastal geology to enhance and accelerate knowledge production.
2. To promote the dissemination and application of this knowledge in coastal hazard assessment and sustainable development, thereby increasing community resilience along shorelines.

In alignment with UNESCO's strategy, the primary objective of this Chair is to effectively develop a scientific network and foster international cooperation. The UNESCO Chair at CGHA is anchored by an international scientific council and a national executive council. The scientific council is tasked with strategic policies, spiritual and facilities support, and fostering convergence and integration across the academic, educational, and research sectors, in line with UNESCO's mission. This chair benefits from the structure and backing of a globally recognized scientific community, including members from Australia, Japan, China, Russia, Armenia, Germany, the Netherlands, Switzerland, Italy, France, the United Kingdom, and Iran.

The executive council and its specialized subcommittees will focus on various tasks, including International Affairs, Education, liaison with universities, Research centers and UNESCO Chairs, Publication, Data Center and Websites, and a subcommittee for researching the implementation of policies approved by the Scientific Council. Their responsibilities encompass internal and external networking, attracting spiritual and financial support, visa services, logistical facilities, management, and executive support aligned with each subcommittee's mission. Additionally, they will compile an annual training calendar and periodic reports in accordance with UNESCO standards. The executive council comprises the chairman, the secretariat, the steering board, and specialized subcommittees. The board of directors, led by the executive director, will develop policies regarding methods and timing while supervising the subcommittees to achieve the goals set by the Scientific Council.

The Secretariat will facilitate communication among the executive council members and specialized committees both internally and externally. Since its official announcement on December 3, 2021, the UNESCO Chair has made significant progress, developing a roadmap and fostering collaborations through MOUs with research and academic centers, scientific associations, the private sector, and official media.

This effort has contributed to a growing network of education-research cooperation beyond Iran's borders, suggesting the potential for agile structures. The evolving global landscape of education and research aligns with national laws and UNESCO standards in the 21st century, a period marked by rapid changes in humanity's attitude toward knowledge, technology, and the very concept of literacy.

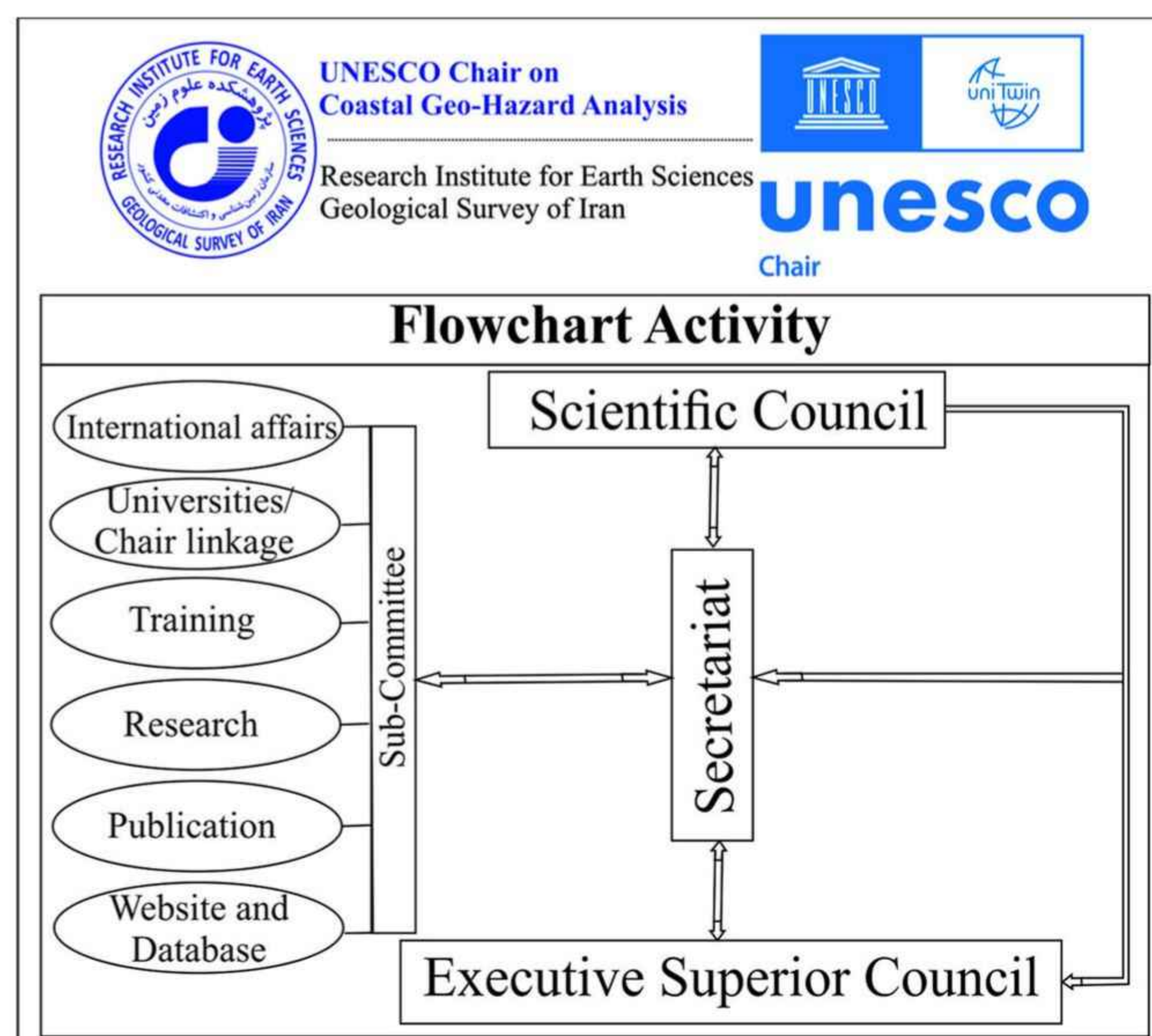
The Executive Council and its specialized subcommittees are dedicated to fostering a collaborative environment that aligns with the evolving demands of both local and global educational frameworks. This commitment is underscored by an emphasis on strategic planning and adaptable methodologies, which are crucial for addressing the diverse challenges presented by our rapidly changing world.

The subcommittee on International Affairs will play a pivotal role in expanding the Chair's outreach, facilitating collaborations with international institutions and networks. It will actively engage in establishing partnerships that not only enhance the Chair's visibility but also contribute to the broader discourse on education and research on a global scale.

The Education subcommittee, alongside its liaison with universities, research centers, and UNESCO Chairs, aims to bridge the gap between educational institutions and practical applications of research.

By fostering innovative programs and initiatives, it will promote an academic environment that encourages the synergy of knowledge creation and dissemination.

This subcommittee will also spearhead the development of workshops and training sessions, ensuring that these offerings adhere to UNESCO standards and respond to the evolving needs of students and educators alike.



In the realm of Publication, the subcommittee will be tasked with elevating the Chair's contributions to scholarly discourse. By publishing research findings, policy recommendations, and articles, it will disseminate knowledge to a wider audience, ensuring that the insights generated from the Chair's activities are accessible to all stakeholders. This effort will be critical in establishing the Chair as a thought leader in the field of education and research. The Data Center and Websites subcommittee will serve as the digital backbone of the Chair's operations, managing data collection, analysis, and presentation.

By maintaining a robust online presence, it will facilitate knowledge sharing, provide resources, and promote transparency in the Chair's activities. The strategic use of technology will allow for enhanced communication and collaboration among all stakeholders involved. The subcommittee for Research on the Implementation of Policies Approved by the Scientific Council will be vital in assessing the effectiveness of established policies and their alignment with the Chair's mission. This group will utilize evidence-based evaluation methods to provide insights and recommendations for continuous improvement, ensuring that the Chair remains responsive to the changing landscape of education and research.

By compiling an annual training calendar and periodic reports, it will ensure that the Chair's initiatives are effectively communicated to all members and stakeholders, fostering a culture of accountability and transparency. In conclusion, the Executive Council and its specialized subcommittees are poised to navigate the complexities of the 21st-century educational landscape. By aligning their activities with UNESCO standards and embracing the rapid advancements in knowledge and technology, they will not only contribute to the global dialogue on education but will also empower individuals and communities to thrive in an increasingly interconnected world.

The figure illustrates the flow of activities related to the UNESCO Chair on Coastal Geo-Hazard Analysis at the Research Institute for Earth Sciences, Geological Survey of Iran. Here's an interpretation of its components:

1. Central Components:

***Scientific Council:** This is likely the main advisory body that oversees scientific activities and research initiatives.

***Secretariat:** Acts as the administrative hub, coordinating activities and communication among various stakeholders.

2. Flowchart Activities:

***Executive Superior Council:** This body likely provides high-level oversight and decision-making for the Chair's activities.

***Sub-Committee:** A specialized group that may focus on specific tasks or projects within the broader framework.

3. External Connections:

***International Affairs:** Indicates engagement with global partners and initiatives.

***Universities/Chair Linkage:** Suggests collaboration with academic institutions to enhance research and training.

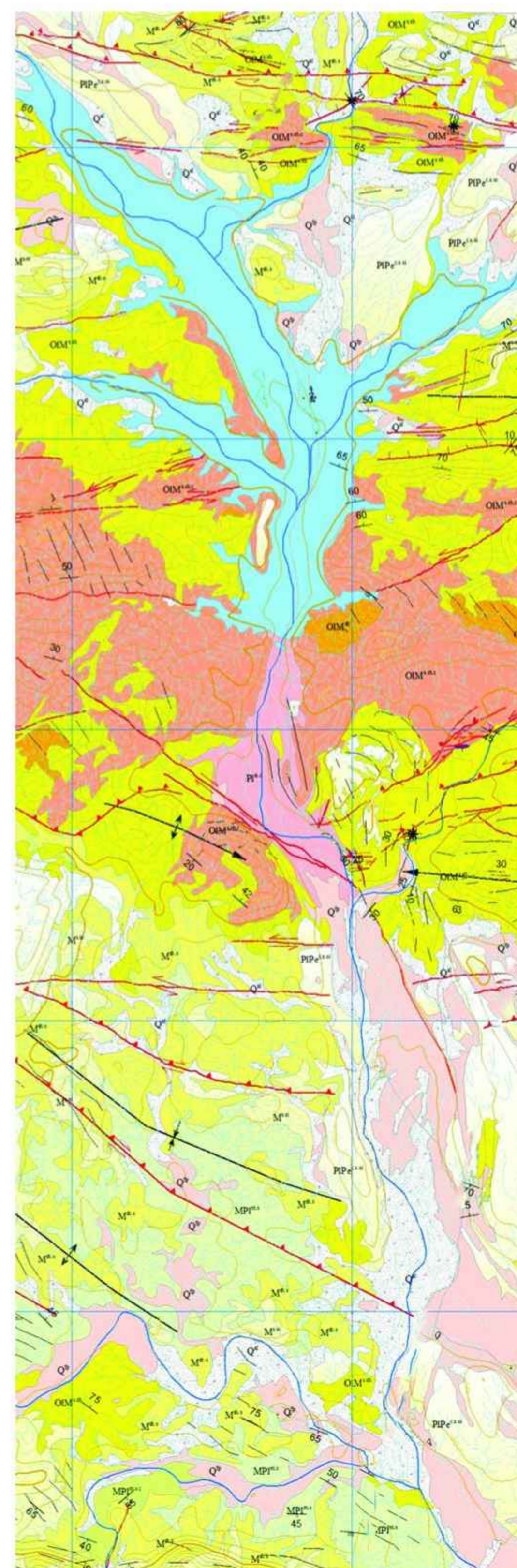
***Training:** Focuses on educational programs and capacity building.

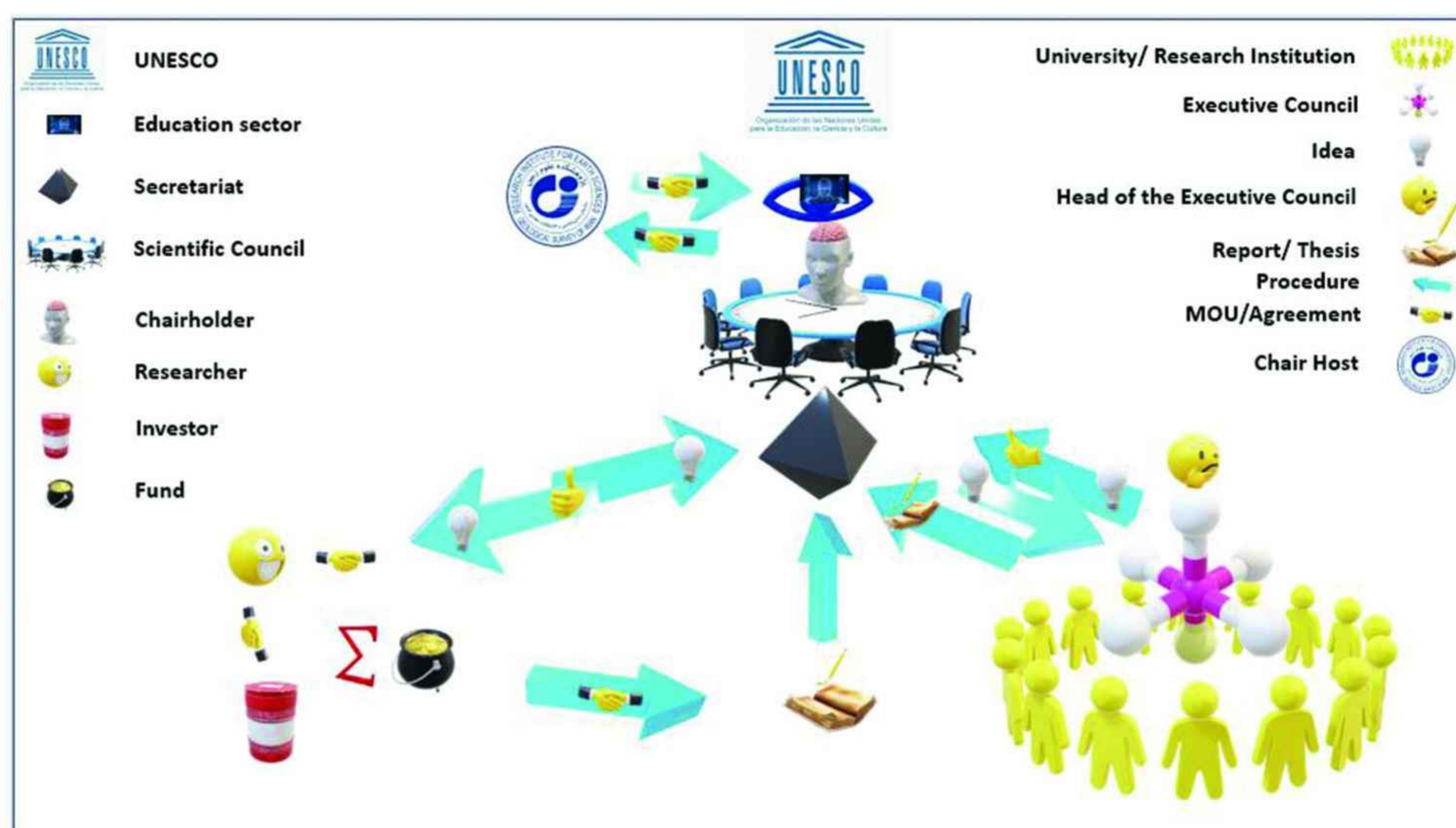
***Research:** Highlights the core activity of conducting studies related to coastal geo-hazards.

***Publication:** Refers to disseminating research findings through various channels.

***Website and Database:** Indicates the importance of digital resources for sharing information and data.

Overall, the flowchart emphasizes a structured approach to managing activities related to coastal geo-hazard analysis, showcasing collaboration among various entities and the importance of research, training, and communication.





3D infographic in UNESCO Chair

The figure appears to illustrate a collaborative framework involving various stakeholders in the context of UNESCO and research institutions. Here's a breakdown of the components:

1. Central Figure: Represents a university or research institution, likely the focal point of collaboration.

2. Stakeholders:

- ***UNESCO:** Indicates the overarching organization guiding the collaboration.
- ***Education Sector:** Suggests involvement in educational initiatives.
- ***Scientific Council:** Implies a focus on scientific research and guidance.
- ***Chairholder:** Likely refers to a position responsible for leading discussions or initiatives.
- ***Researchers:** Individuals conducting studies or projects.
- ***Investors:** Entities providing funding or resources.
- ***Fund:** Represents financial support mechanisms.

3. Processes:

- ***Executive Council:** Indicates a governing body making decisions.
- ***Head of the Executive Council:** The leader of this governing body.
- ***MOU/Agreement:** Suggests formal agreements between parties.
- ***Report/Thesis:** Represents the output of research efforts.

4. Flow Arrows: Indicate the direction of communication and collaboration among the stakeholders, emphasizing a networked approach to achieving educational and research goals.

5. Visual Elements: Light bulbs may symbolize ideas or innovation, while the pyramid could represent foundational knowledge or goals.

Overall, the figure emphasizes a collaborative ecosystem where various stakeholders contribute to educational and research initiatives under the guidance of UNESCO.

BIOGRAPHY SCIENTIFIC COUNCIL

Ara Avagya

Affiliation: IGS/ Institute of Geological Sciences of the National Academy of Sciences of Armenia

Skill and Research interest: active tectonics- geodynamic- geological hazard

Official Website: <https://geology.am/>

Address: NAS RA Institute of Geological Sciences- 24A M. Baghramyan Ave. 0019, Yerevan, Armenia

Tel: +374 10 52 44 26

Email: avagn1064@gmail.com



Rick J Bailey

Affiliation: IOC-UNESCO Indian Ocean Tsunami Warning and Mitigation System/ UNESCO

Skill and Research interest: Tsunami (risk, warning, preparedness, education, training)- Ocean monitoring and forecasting- Intergovernmental and inter-agency liaison- Governance- Leadership in science and service management- Business and Business Case development- Project management- Risk management- Performance management- Legal and contract management- Business relationship and Key Account management- Strategic and operational planning- Capacity assessment and development- Training

Official Website: <https://oceanexpert.org/>

Address: UNESCO IOC Perth Regional Programme Office Level 3, 1 Ord Street / PO Box 1370 West Perth, Western Australia 6872 Australia

Tel: +61 408027594

Email: r.bailey@unesco.org



Aram Fathian Baneh

Affiliation: University of Calgary

Skill and Research interest: active tectonics- geodynamic- geological hazard

Official Website: <https://ucalgary.ca/>

Address: University of Calgary 2500 University Dr. NW Calgary, Alberta, Canada T2N 1N4

Email: aram.fathianbaneh@ucalgary.ca



Wenjiao Xiao

Affiliation: Chinese Academy of Sciences

Skill and Research interest: Tethyan orogenic Belt and the Central Asian Orogenic and Mineralization

Official Website: <https://igg.cas.cn/>

Address: No. 19 Beitucheng West Road, Chaoyang District, Beijing 100029, China

Tel: 86 010 82998524

Email: wj-xiao@mail.iggcas.ac.cn



Philippe Agard

Affiliation: University of Sorbonne

Skill and Research interest: Regional-scale tectonics and lithosphere dynamics, metamorphic petrology and rheology – with a focus on convergent plate margins (subduction, obduction)

Official Website: <https://www.sorbonne-universite.fr/>

Address: Sorbonne University, 21, rue de l'Ecole de Medicine, 75006 Paris

Email: philippe.agard@upmc.fr



Alice Aurelie

Affiliation: UNESCO Water Sciences Division (Retired)

Skill and Research interest: Groundwater Resources and Aquifer Systems

Official Website: <https://www.landsubsidence-unesco.org/>

Address: UNESCO Representative, 1, rue Miollis, 75732 Paris Cedex 15, France

Tel: (+52) 442 2381104 ext. 112

Email: a.aureli@unesco.org



Eric Barrier

Affiliation: University of Sorbonne (Retired)

Skill and Research interest: tectonics, earth sciences, structural geology, field geology, geological mapping, active tectonics, sedimentary basins, neotectonics and basin analysis

Official Website: <https://www.sorbonne-universite.fr/>

Address: Sorbonne University, 21, rue de l'Ecole de Medicine, 75006 Paris

Email: eric.barrier@sorbonne-universite.fr



Jean Chery

Affiliation: University of Montpellier

Skill and Research interest: Geophysics, Instrumentation, Energy, Researcher at CNRS

Official Website: <https://www.le-monde-des-non-c.org/>

Address: Montpellier Geosciences Laboratory (UMR 5243), University of Montpellier – CNRS, Montpellier, France

Email: jean.chery@umontpellier.fr



Magdi Guirguis

Affiliation: Institut français d'archéologie orientale du Caire

French University archaeologist with Egyptian origins

Fax: (002)01003384971

Tel: (202)27900255(661)

Email: mguirguis@ifao.egnet.net , mguirguis@aucegypt.edu



Biography scientific council

Jean-François Ritz

Affiliation: University of Montpellier

Skill and Research interest: active tectonics- geodynamic- geological hazard

Official Website: <http://www.gm.univ-montp2.fr/>

Address: Géosciences Montpellier -Université de Montpellier- Campus Triolet
CC060- Place Eugène Bataillon

Tel: (33) 4 67 14 39 07

Email: jean-francois.ritz@umontpellier.fr



Klaus Reicherter

Affiliation: Aachen University

Skill and Research interest: Active faults, palaeoseismicity and historical seismicity,
Secondary earthquake effects, tsunامي, landslides and Palaeoclimatology of the
Late Pleistocene and Holocene and tectonics

Official Website: <http://www.nug.rwth-aachen.de/>

Address: Gebäude: Haus Bour, Raum: 307, Lochnerstr. 4 – 20, 52064 Aachen

Tel: +49 241 80 95722

Email: k.reicherter@nug.rwth-aachen.de



Judith Thomalsky

Affiliation: German Archaeological Institute

Skill and Research interest: Archeology

Official Website: <https://www.dainst.org/>

Address: Central Station, Podbielskiallee, 69-71
14195 Berlin- Germany

Tel. +49 030 187711-0

Email: info@dainst.de and judith.thomalsky@dainst.de



Iraj Abdollahie Fard

Affiliation: Exploration Directorate of NIOC (Retired)

Address: No. 26, Azadi St., Heravi District, Tehran, Iran, Postal Code 1669617318

Tel: +989125212271

Email: iabdollahie@gmail.com



Behrooz Abtahi

Affiliation: Faculty Life Sciences and Biotechnology, Shahid Beheshti University

Official Website: <https://facultymembers.sbu.ac.ir/abtah>

Address: Shahid Beheshti University

Email: b_abtahi@sbu.ac.ir



Hamid Alizadeh Lahijani

Affiliation: Iranian National Institute for Oceanography and Atmospheric Science

Skill and Research interest: Sedimentology

Official Website: <http://www.inio.ac.ir/>

Address: No.3, Etemad Zadeh St., Fatemi Ave., Tehran, IR. Iran

Tel: (+98)21- 66944873-5

Email: lahijani@inio.ac.ir



Abbas Banj Shafiei

Affiliation: Urmia University

E-mail: a.banjshafiei@urmia.ac.ir

Website: <http://urmia.ac.ir/>

Tell: +98 44 32750555



Yahya Djamour

Affiliation: Shahid Beheshti University (SBU)

Skill and Research interest: Satellite Positioning Geodetic Surveying Crustal Deformation Monitoring Geometrical Geodesy

Official Website: <https://cwe.sbu.ac.ir/>

Address: Shahid Beheshti University, Shahid Shahriari Square, Evin, Tehran, Iran

Tel: (+98)21-73932449

Email: y_djamour@sbu.ac.ir



Dariush Esmaili

Affiliation: Geological Survey of Iran.

Skill and Research interest: Geology, Mineralogy, Petrology, Economic Resources, Geochemistry, Petrogenesis,

Official Website: <http://gsi.ir>

Address: Geological Survey of Iran., Meraj St., Azadi Sq., Tehran, Iran.

Tel: (+98)21-66070500

Email: dsmaeili@ut.ac.ir



Hassan Fazeli Nashli

Affiliation: University of Tehran

Skill and Research interest: Archaeology

Official Website: <http://ut.ac.ir/>

Address: Literature and Human Sciences Faculty of Tehran University, Enqelab Ave, Tehran, Iran.

Tel: +982161112561

Email: hfazelin@ut.ac.ir



Biography scientific council

Razyeh Lak

Affiliation: Research Institute for Earth Sciences

Skill and Research interest: Environmental Geology, Climate Change, Holocene Pleoclimate, Marine and Coastal Sedimentology, Lake and Playa Environments

Official Website: <http://ries.ac.ir/>

Address: Research Institute for Earth Sciences, Geological Survey of Iran, Meraj St., Azadi Sq., Tehran, Iran

Tell: +982164592301

Email: lak_ir@yahoo.com



Mohammad Mokhtari

Affiliation: International Institute of Earthquake Engineering and Seismology (Retired)

Skill and Research interest: analysis and processing the seismic data, Geophysical data acquisition, processing and interpretation (seismic reflection, refraction, gravity and magnetic) and interpretation of 3D seismic data

Official Website: <http://www.iiees.ac.ir/>

Address: No. 21, Arghavan St., North Dibajee, Farmanieh. Tehran-Iran.

P.O.Box: 19537-14453

Tel: +98 21 22830830

Email: m7mokhtari@gmail.com



Hamid Nazari

Affiliation: Research Institute for Earth Sciences

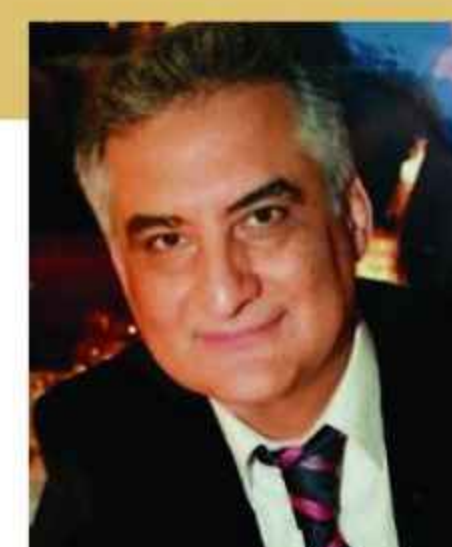
Skill and Research interest: Paleoseismology, Tectonic, Active Tectonic

Official Website: <http://ries.ac.ir/> and <http://unescoiran.com/>

Address: Research Institute for Earth Sciences, Geological Survey of Iran, Meraj St., Azadi Sq., Tehran, Iran

Tel: +98 21 64592427

Email: h.nazari@gsi.ir, h.nazari@riec.ac.ir, uchair.cggha@ries.ac.ir, hamidnazarii@gmail.com



Jafar Omrani

Affiliation: CGMW- Geological Survey of Iran. (Retired)

Skill and Research interest: Petrology and Geodynamic

Official Website: <http://gsi.ir/>

Address: Geological Survey of Iran, Meraj St., Azadi Sq., Tehran, Iran

Tel: +98 2164592271

Email: j.omrani@gmail.com



Morteza Talebian

Affiliation: Research Institute for Earth Sciences

Skill and Research interest: Seismotectonics, active fault, earthquake hazard analysis

Official Website: <http://ries.ac.ir/>

Address: Research Institute for Earth Sciences, Geological Survey of Iran, Meraj St., Azadi Sq., Tehran, Iran

Tel: +982164592404

Email: morteza.talebian@gmail.com



Mohammad Tatar

Affiliation: International Institute of Earthquake Engineering and Seismology

Skill and Research interest: Tectonic, Active Tectonic

Official Website: <http://www.iiees.ac.ir/>

Address: No. 21, Arghavan St., North Dibajee, Farmanieh. Tehran-IRAN P.O.Box: 19537-14453

Tel: +98 21 22830830

Email: mtatar@iiees.ac.ir



Alireza Zarasvandi

Affiliation: Department of Geology Industrial Research Organization of Iran

Official Website: <https://earth.scu.ac.ir/>

Address: Shahid Chamran University

Email: Zarvasvandi_a@scu.ac.ir



Mehdi Zare

Affiliation: International Institute of Earthquake Engineering and Seismology

Skill and Research interest: Seismic Hazard Analysis, Seismotectonic, Crisis Management

Official Website: <http://www.iiees.ac.ir/>

Address: No. 21, Arghavan St., North Dibajee, Farmanieh.

Tehran-IRAN P.O.Box: 19537-14453

Tel: +98 21 22830830

Email: mehdi.zare.iran@gmail.com, talebiana@ries.ac.ir



Stefano Salvi

Affiliation: National Institute of Geophysics and Volcanology (INGV)

Skill and Research interest: GEO Geohazard

Official Website: <https://www.ingv.it/>

Address: Via di Vigna Murata 605 -00143 Roma

Tel: +39 06518601

Email: stefano.salvi@ingv.it



Ryo Anma

Affiliation: Tokushima University

Skill and Research interest: Tectonics and Geodynamics

Official Website: <https://www.tokushima-u.ac.jp/>

Address: Minami-josanjima 2-1, Tokushima, 770-8506 Japan

Tel: 088-656-7240

Email: anma@tokushima-u.ac.jp



Yeong Bae Seong

Affiliation: Korea University

Official website: www.korea.edu

Email: ybseong@korea.ac.kr

Address: 145 Anam-ro, Seongbuk-gu, Seoul, Korea (02841)

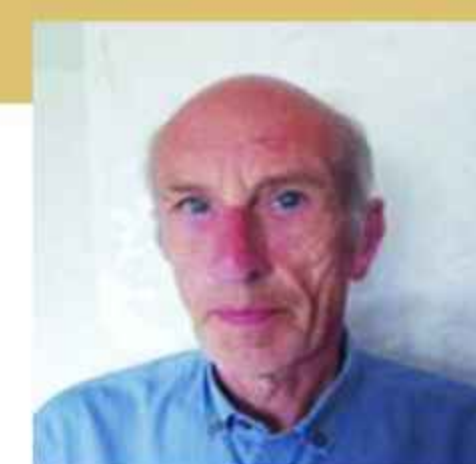
Tel: +82232902367



Biography scientific council

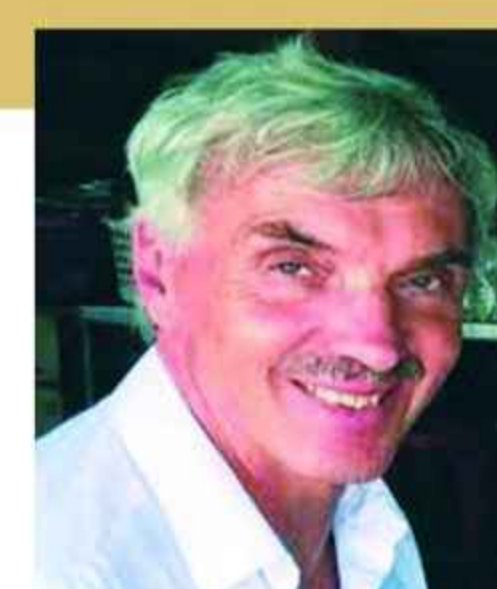
John Lambert

Affiliation: Deltares, UNESCO (Retired)
Skill and Research interest: Geohydrology, Civil Engineering
Official Website: <https://www.deltares.nl/>
Address: 2600 MH Delft, the Netherlands
Tel: +31 (0)88 335 8273
Email: John.Lambert@deltares.nl



Ekkehard Holzbecher

Affiliation: German University of Technology in Oman
Official website: www.gutech.edu.om
Email: ekkehard.holzbecher@gutech.edu.om
Address: GUTech, P.O. Box 1816, Athaiba 130, Sultanate of Oman
Tel: +96822061177



Issa El-Hussain

Affiliation: Sultan Qaboos University
Skill and Research interest: Geophysics
Official Website: <https://www.squ.edu.om/>
Address: Sultan Qaboos University,
P.O. Box 50, P.C. 123, Al-khod, Sultanate of Oman
Tel: (+968) 2414 1511
Email: elhussain@squ.edu.om



Richard Walker

Affiliation: University of Oxford
Skill and Research interest: remote sensing, detailed field investigation, earthquake studies, and Quaternary dating methods
Official Website: <https://www.ox.ac.uk/>
Address: University of Oxford-University Offices-Wellington Square-Oxford- OX1 2JD- United Kingdom
Tel: +44 1865 270000
Email: richard.walker@earth.ox.ac.uk



Egor Krasinskii

Affiliation: Academician I.S. Gramberg All-Russian Scientific Research Institute for Geology and Mineral Resources of the Ocean
Skill and Research interest: ground water
Official Website: www.vniio.ru
Address: 1, Angliysky prospekt 190121, St. Petersburg Russia
Tel: +7 921 777 62 62
Email: e.krasinskii@vniio.ru



Franck A Audemard

Affiliation: Department of Geology, Central University of Venezuela (Retired)
Official Website: <http://www.ucv.ve/>
Address: University City of Caracas, Los Chaguaramos Caracas, Venezuela
Email: faudemard@gmail.com





EXECUTIVE COUNCIL

The Executive Committee monitors our research program according to the Chair's objectives. It advises the chair holder and is responsible, among other things, for approving the annual activity reports, as well as any significant changes to the budget or the Chair's objectives. The Executive Committee also approves the annual planning of research and dissemination activities, as well as the Chair's scientific program as defined by the Scientific Committee.

Affiliation: Research Institute for Earth sciences, Geological Survey of Iran

Official Website: <https://ries.ac.ir/> and <https://unescoiran.com/>

Address: Research Institute for Earth Sciences, Geological Survey of Iran, Meraj St., Azadi Sq., Tehran, Iran

Tel: +98 21 66070518 **Fax:** +98 21 66070511 **P.O. Box:** 13185-1494, Tehran-Iran

Code Postal: 1387835841 **Email:** uccgha.ries@gmail.com / info@ries.ac.ir

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Academic Advisor
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Research Expert
Mohammad Ali Shokri (GSI)



Public Relation Affair
Faramarz Taheri Dadgar (GSI)

Executive Council

Representative of abroad

Nasir Ahmadi

Affiliation: Environmental Protection Organization of Mazandaran Province

Official Website: <http://mazandaran.doe.ir/>

Address: Mohitban Al., Roudaki St., Amirmazandarni Blv., Sari, Iran

Tel: +98 11 33374580

Email: mazandaran@doe.ir



Arash Amini

Affiliation: Golestan University

Official Website: <http://gu.ac.ir/>

Address: Shahid Beheshti St., Gorgan, Golestan, Iran

Tel: +98 11 33268351

Email: a.amini@gu.ac.ir



Alireza Amrikazemi

Affiliation: Scientific Coordinator, Qeshm Island UNESCO Global Geopark

Member, UNESCO Global Geoparks Council

Address : Qeshm Island Global Geopark Central office, next to Gepark museum, Pardis Junction, Valiasr Ave., Qeshm, Iran

Email: aamrikazemi@gmail.com

Mobile Phone: +989122158538



Somayeh Arab

Affiliation: : PhD Student, Department of Media Management, Faculty of Management, University of Tehran, Tehran, Iran

Address: No-3, The dead end of Islam, ranjbar Av, At the end of Jihoon Av, Tehran, Iran

Email: somayeharab61@ut.ac.ir

Tel: 00989126448944

Official Website: <https://somayeharab.ir/>



Parviz Armani

Affiliation: Imam Khomeini International University

Address: Department of Geology, Faculty of Science, IK Int. University , Qazvin-Iran

Email: parviz.armani4@gmail.com



Asghar Dolati

Affiliation: Kharazmi University

Address (Karaj Campus): KhU, University Sq., Shahid Beheshti Street, Karaj, Iran

Email: asghar.dolati@gmail.com

Tel: +98 9125044582



Hasan Fazelinashli

Affiliation: University of Tehran

Official Website: [http:// ut.ac.ir/](http://ut.ac.ir/)

Address: Literature and Human Sciences Faculty of Tehran University, Enqelab Avn., Tehran, Iran

Tel: +98 21 61112561

Email: hfazelin@ut.ac.ir



Fahimeh Foroghi

Affiliation: Iranian National Institute for Oceanography and Atmospheric Science

Official Website: <http://www.inio.ac.ir/>

Address: No. 3, Etemad Zadeh St., Fatemi Ave., Tehran, Iran

Tel: +98 21 66944873-5

Email: fahimeh.foroughi@gmail.com



Abdolazaim Ghanghormeh

Affiliation: Golestan University

Official Website: <http://gu.ac.ir/>

Address: Shahid Beheshti St., Gorgan, Golestan, Iran

Tel: +98 11 33268351



Habibolah Ghasemi

Affiliation: Shahrood University of Technology

Address: Shahrood University OF Technology Shahrood, Iran, P.O. Box: 3619995161

Email: habibghasemi45@gmail.com



Ahmed Hadid

Affiliation: German University of Technology in Oman

Email: ahmed.hadidi@gutech.edu.om

Address: GUTech, P.O. Box 1816, Athaiba 130, Sultanate of Oman

Tell: +96822061177



Ataollah Kavian

Affiliation: Environmental Protection Organization of Mazandaran Province

Official Website: <http://mazandaran.doe.ir/>

Address: Mohitban Al., Roudaki St., Amirmazandarni Blv., Sari, Iran

Tel: +98 11 33374580

Email: mazandaran@doe.ir



Ali Akbar Momeni

Affiliation: Shahrood University of Technology

Address: Shahrood University OF Technology Shahrood, Iran, P.O. Box: 3619995161

Email: Ali_moomeni@yahoo.com

Tel: +98 9122889469



Executive Council

Babak Moradi

Affiliation: Iranian National Institute for Oceanography and Atmospheric Science
Official Website: <http://www.inio.ac.ir/>
Address: No. 3, Etemad Zadeh St., Fatemi Ave., Tehran, Iran
Tel: +98 21 66944873-5



Seyed Mohsen Mortazavi

Affiliation: Hormozgan University
Official Website: <http://hormozgan.ac.ir/>
Address: Geology Department- Hormozgan University -9 Km Minab road- Hormozgan- Iran
Tel: +98 76 33711000-10
Email: mortazavi@hormozgan.ac.ir



Hasan Nasrollah Zadeh Saravi

Affiliation: Caspian Sea Ecological Research Center
Official Website: <http://cserc.ifsri.ir/>
Address: R466+3XH, Khazar Abad, Mazandaran Province, Iran
Tel: +98 11 33462496
Email: hnsaravi@gmail.com



Ehsan Pegah

Affiliation: Kharazmi University
Address (Karaj Campus): KhU, University Sq., Shahid Beheshti Street, Karaj, Iran
Email: e.pegah@khu.ac.ir; ehsan.pegah@gmail.com
Tel: +98 9183583178



Abdolwahed Pehpouri

Affiliation: Qeshm Island UNESCO Global Geopark
Address : Qeshm Island Global Geopark Central office, next to Gepark museum, Pardis Junction, Valiasr Ave., Qeshm, Iran
Email: wahed58@gmail.com
Phone : +98 76 35242282



Ahmadreza Rabani

Affiliation: University of Science and Technology of Mazandaran
Official Website: <http://mazust.ac.ir/>
Address: 3 Km of Miankaleh Gulf, Mazandaran, Iran
Tel: +98 11 34552007
Email: mazandaran@doe.ir



Mehdi Rahmanian

Affiliation: Shargh Daily newspaper
Official Website: <http://sharghdaily.com/>
Address: No 22, Bahram Masiri St., Jahad Sq., Iran
Tel: +98 21 88942035



Masoud Sadri Nasab

Affiliation: University of Tehran
Official Website: <http://ut.ac.ir/>
Address: 16th Azar St., Enghelab Sq., Tehran, Iran
Tel: +98 21 61112561
Email: masoud.sadri@ut.ac.ir



Mojtaba Safari

Affiliation: University of Mazandaran, Babolsar, Iran
Skill and research interest: Archaeology and pale-climate and environmental
Official website: <https://rms.umz.ac.ir/~msafari/>



Mohammad Tatar

Affiliation: International Institute of Earthquake Engineering and Seismology
Official Website: <http://iiees.ac.ir/>
Address: No. 21, Arghavan St., North Dibajee, Farmanieh, Tehran, Iran
Tel: +98 21 22830830
Email: mtatar@iiees.ac.ir



Mojtaba Yamani

Affiliation: University of Tehran
Official Website: <http://geography.ut.ac.ir/>
Address: 16th Azar St., Enghelab Sq., Tehran, Iran
Tel: +98 21 66404366
Email: myamani@ut.ac.ir





DEVELOPMENT



Development of the Infrastructure of the UNESCO Chair on Coastal Geo - Hazard Analysis

In the 21st century, knowledge-based organizations are vital for promoting sustainable development and enhancing national resilience, especially in developing countries like Iran. They utilize innovation, technology, and expertise to tackle challenges such as resource scarcity, environmental degradation, and economic instability. By supporting research and development (R&D), facilitating technology adoption, and fostering collaboration among academia, industry, and government, these organizations create sustainable solutions tailored to local needs.



Building on four years of experience, the Chair and members of the UNESCO Chair on Coastal Geo-Hazard Analysis (UCCGHA) founded a Knowledge-Based Company entitled Intelligence Geo-Mine (IGM) in early 2025. This initiative aimed to enhance collaboration, address educational and operational needs, and promote academic and technical innovations alongside industry, mining, informatics, and artificial intelligence.

In countries like Iran, where economic diversification and environmental sustainability are essential, these organizations empower sectors such as agriculture, energy, and mining to adopt eco-friendly practices, optimize resource use, and decrease reliance on non-renewable resources. They also cultivate a skilled workforce and foster a culture of innovation, bolstering national resilience against external shocks like market fluctuations and climate change. Ultimately, knowledge-based organizations act as catalysts for sustainable growth, enabling Iran to achieve long-term economic, social, and environmental stability while competing in the global knowledge economy.

At IGM, our core values Innovation, Scientific Excellence, Sustainability, Global Collaboration, and Ethical Responsibility drive our mission to revolutionize earth sciences. Collaborating closely with UCCGHA, IGM strives to become a leading knowledge-based firm in earth sciences and artificial intelligence. Our strategic roadmap integrates knowledge and innovation into our core operations, keeping us at the technological forefront. We will prioritize R&D initiatives to develop proprietary technologies for geological and mineral exploration and invest in innovative AI projects to enhance our data analysis and decision-making capabilities.

To build expertise, we will foster partnerships with academic institutions, research organizations,





Research /Edu Activity

MEMORANDUM OF UNDERSTANDING



Multilateral Memorandum of Understanding between UNESCO Chair on Coastal Geo- Hazard Analysis, and Research Institute for Earth Sciences, Geological Survey of Iran



1. Afarinesh consulting Engineering
2. Arak University of Technology
3. Association of Employers of Technology Companies Artificial Intelligence and Digital
4. Caspian Sea Ecological Research Center
5. Company of Segal Pajohane Zamin
6. Department of Environment of Mazandaran
7. Federal State Budgetary Institution "Academician I.S. Gramberg all-Russia Scientific Research Institute for Geology and Mineral Resources of the Ocean" (FSBI. "VNIIOkeangeologia", Russia, Saint-Petersburg)
8. Future Land Institute, South Korea University
9. Geological Society of Iran
10. German University of Technology in Oman
11. Golestan University
12. Hormozgan University
13. Imam Khomeini International University
14. Institute of Geological Sciences of the National Academy of Sciences of Armenia
15. Institute of Geology and Geophysics, Chinese Academy of Sciences
16. International Association for Promoting Geoethics (IAPG)
17. International UNESCO Center for Health-Related Basics Sciences and Human Nutrition
18. Iranian Quaternary Association
19. Jiroft University
20. Joint Stock Company of the Republic of Kazakhstan «National Geological Survey»
21. Journal of Animal Environment
22. Kanlran Consulting Engineering Company
23. Kharazmi University
24. Mazandaran Department of Environment
25. Pardazesh seir afagh
26. PARS Geological Research Center (Arian Zamin)
27. Qeshm Island UNESCO Global Geopark
28. Qeshm Island UNESCO Global Geopark and UFA

University of science and Technology Ministry of Science and Higher Education of the Russian Federation

29. Raspina Virtual Development

30. Research Institute of Applied Sciences

31. Seismology Research Center of International Institute of Earthquake Engineering and Seismology

32. Shahrood University of Technology

33. Shargh Daily news paper

34. State Key Laboratory of Tibetan Plateau Earth System, Environment, Resources Institute of Tibetan Plateau Research, Chinese Academy of Science, Lanzhou University, ANSO Association of Trans-Eurasia Exchange and Silk Road Civilization Development (ATES)

35. UNESCO Category 2 Regional Education and Research Centre on Oceanography for West Asia (RCOWA)

36. UNESCO Chair on Engineering Education

37. University of Science and Technology of Mazandaran

38. University of Tehran

39. Urmia University



Research /Edu Activity

CONFERENCES AND WORKSHOPS



11th Conference Minerals of the Ocean, 5 June 2025, Tehran, Iran.

43rd Earth Sciences Conference, 18 February 2025, Tehran, Iran.

Ancient Prehistoric Tribes and Civilizations of the Iranian Plateau, 25 January 2025.

Artificial Intelligence Geological Map of Makran Area, 19 November 2024.

Coastal Geomorphology and Coastal Hazard Reconstruction, Two Days Workshop, 1-2 February 2025, Tehran, Iran.

Four-Day Workshop on the Preparation of 1:50,000 Scale Geological and Geochemical Mapping, 20-23 July 2025.

From the Last Glacial Maximum to the Late Holocene: Unraveling the Dynamic Complexities of Climate and Human History in Western and Southeastern Iran, 5 May 2025.

Geohazard Manifestation in Armenian Territory, 10 March 2025.

Geological Mapping in the Era of AI: Leveraging Innovation for Precision and Speed, 5 March 2025.

Geological Mapping in the Era of AI: Leveraging Innovation for Precision and Speed, One Day Workshop, Arak University of Technology, 26 February 2025.

International Training Workshop in Armenia, focusing on Geo-Hazards and Geo-Archaeology, 5-7 August 2025.

Natural Hazards along the Coastal Zone of the CASPIAN SEA Future Challenges, 11 November 2024.

One-Day Field Visit in Central Iran, Focused on Geological and Geochemical Survey Methods, 10 August 2025.

Six-Day Workshop on Applied Magnetotellurics: From Field Data to 2D Inversion, 14-17 and 27-30 September 2025.

Tectonic Setting and Geology of the Urmia Lake from its Formation up to Drying in Recent Decades, 21 October 2024.

The UNESCO Chair on Coastal Geo-Hazard Analysis and Intelligent Geo-Mine CO Holding Showcases Innovations at the International Trade Fair for Construction and Building Industry, 23-25 September, Erbil International Fairground, Iraq.

Two-Day Hands-On Field Practice in Applied Magnetotellurics: Focus on Sensor Deployment and System Setup, 22-23 September 2025.

PUBLICATION MEETING



- Joint Meeting between UNESCO Chair on CGHA and Director General of the VNIIOkeangeologia Institute, Empress Cathrine Lat Petersburg Mining University, Russia.
- Joint Meeting between UNESCO Chair on CGHA and Executive committee.
- Joint Meeting between UNESCO Chair on CGHA and GUTech University.
- Joint Meeting between UNESCO Chair on CGHA and Institute of Tibetan Plateau Research (ITP).
- Joint Meeting between UNESCO Chair on CGHA and International Association for Promoting Geoethics.
- Joint Meeting between UNESCO Chair on CGHA and Iranian National Commission for UNESCO.
- Joint Meeting between UNESCO Chair on CGHA and Korea University.
- Joint Meeting between UNESCO Chair on CGHA and Lanzhou University.
- Joint Meeting between UNESCO Chair on CGHA and Meteorology and Air Navigation Complex (PACA).
- Joint Meeting between UNESCO Chair on CGHA and Qeshm Island UNESCO Global Geopark and Ministry of Science and Higher Education of the Russian Federation.
- Joint Meeting between UNESCO Chair on CGHA and Sultan Qaboos University.
- Joint Meeting between UNESCO Chair on CGHA and Tokushima University.
- Joint Meeting between UNESCO Chair on CGHA Partners of UNESCO Chairs convened by the African Union Commission and UNESCO, Addis Ababa, Ethiopia.
- Joint Meeting between UNESCO Chair on CGHA, Ecology Research Institute and Oceanography and Atmospheric Sciences and Department of Environment of Mazandaran.
- Joint Online Meeting between UNESCO Chair on CGHA and Presence of the Honorable Ambassador of Iran in Ethiopia and Members of the Faculty of Mining Engineering at Shahid Bahonar University of Kerman.
- Joint Meeting between UNESCO Chair on CGHA and Geological Academicians of the University of Soren, Kurdistan State, Iraq at the Erbil Building Exhibition.



Research / Edu Activity

RESEARCH PROJECT

Geo-Archaeology

1 Project Name:

Geoarcheology of Behshahr region, SE Caspian

Duration of the project:

June 2022 to 2025

Main financial funder:

German Archaeological Institute, Germany

Research Institute for Earth Sciences, Iran

Main project manager:

German Archaeological Institute, Tehran, Germany:

(Judith Thomalsky)

Internal/ External collaborator:

-University of Tehran, Iran

-Research Institute for Earth Sciences, Iran

-Geological Survey of Iran



2 Project Name:

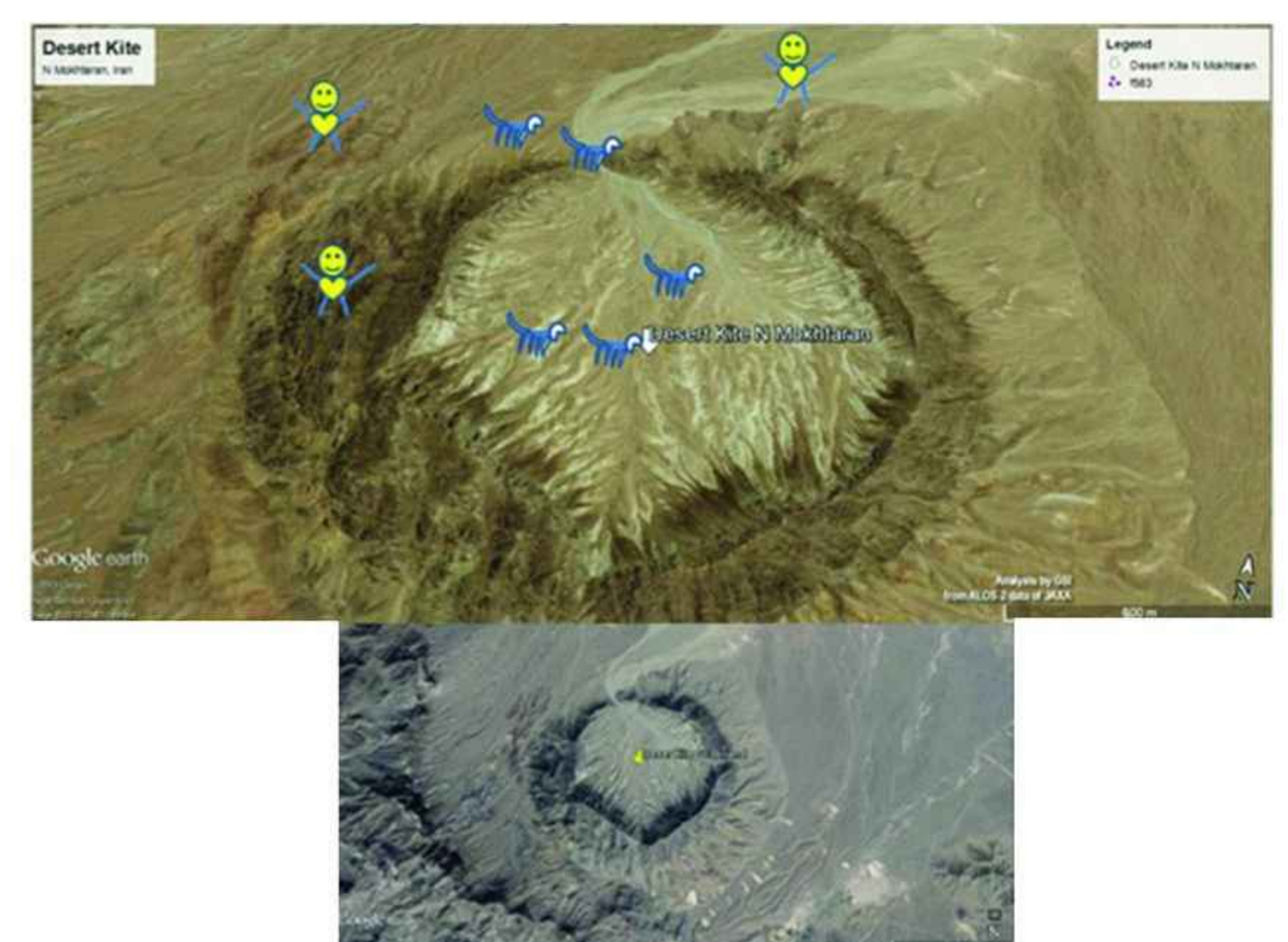
Introduction to the Desert Kite, State of the Art

Duration of the project:
2023 - 2025

Main financial funder:
Research Institute for Earth Sciences, Iran
South Korea University

Main project manager:
Research Institute for Earth Sciences, Iran,
(Hamid Nazari)

Internal/ External collaborator:
South Korea, Germany, Armenia and Iran



Paleoclimatology

3 Project Name:

Determining the physical, chemical characteristics and changes in the sedimentation rate in the Miankala peninsula and its effect on the death of birds, SE Caspian Sea

Duration of the project:

Nov. 2022 - 2025

Main financial funder:

Research Institute for Earth Sciences, Iran

Chinese Academy of Sciences, China

University of Tehran, Faculty of environmental engineering

Main project manager:

Research Institute for Earth Sciences (Razyeh Lak)

Internal/ External collaborator:

Research Institute for Earth Sciences, Iran

Tehran University

Lanzhou University, China





4 Project Name:

The last millennium paleoclimatic events in Iran

Duration of the project:

2024 -2026

Internal/ External collaborator:

Research Institute for Earth Sciences, Iran

Institute of Tibetan Plateau Research, Chinese Academy of Science, China





Tectonic And hazard Assessment

5 Project Name:

Seismic zoning map, Regulation 2800 - Regulation for the design of buildings against earthquakes

Duration of the Project:
2024-2025

Main financial funder:
BHRC

Main project manager:
Morteza Talebian

Internal/ External Project collaborators:
Manuchehr Ghorashi



6 Project Name:

Morphotectonic aspect on the Gavaraget fault west of Grand Sevan

Duration of the project:

2023 - 2025

Main financial funder:

CNRS, University of Montpellier, (Jean Francois Ritz)

Main Project manager:

Geological Institute of Armenia (Ara Avagyan)

Internal/ External collaborator:

Armenia, France, Russia and Iran



Project Name:

Paleoseismology in the North East of Sevan

Duration of the project:

2023 - 2025

Main financial funder:

Geological Institute of Armenia (Ara Avagyan)

CNRS, University of Montpellier, (Jean Francois Ritz)

Main project manager:

Geological Institute of Armenia (Ara Avagyan)

Internal/ External collaborator:

Armenia, France, Russia and Iran



8 Project Name:

Unraveling the Impact of High Waves on the Persian Gulf Coastline

Duration of the project:

June 2025 - 2026

Main financial funder:

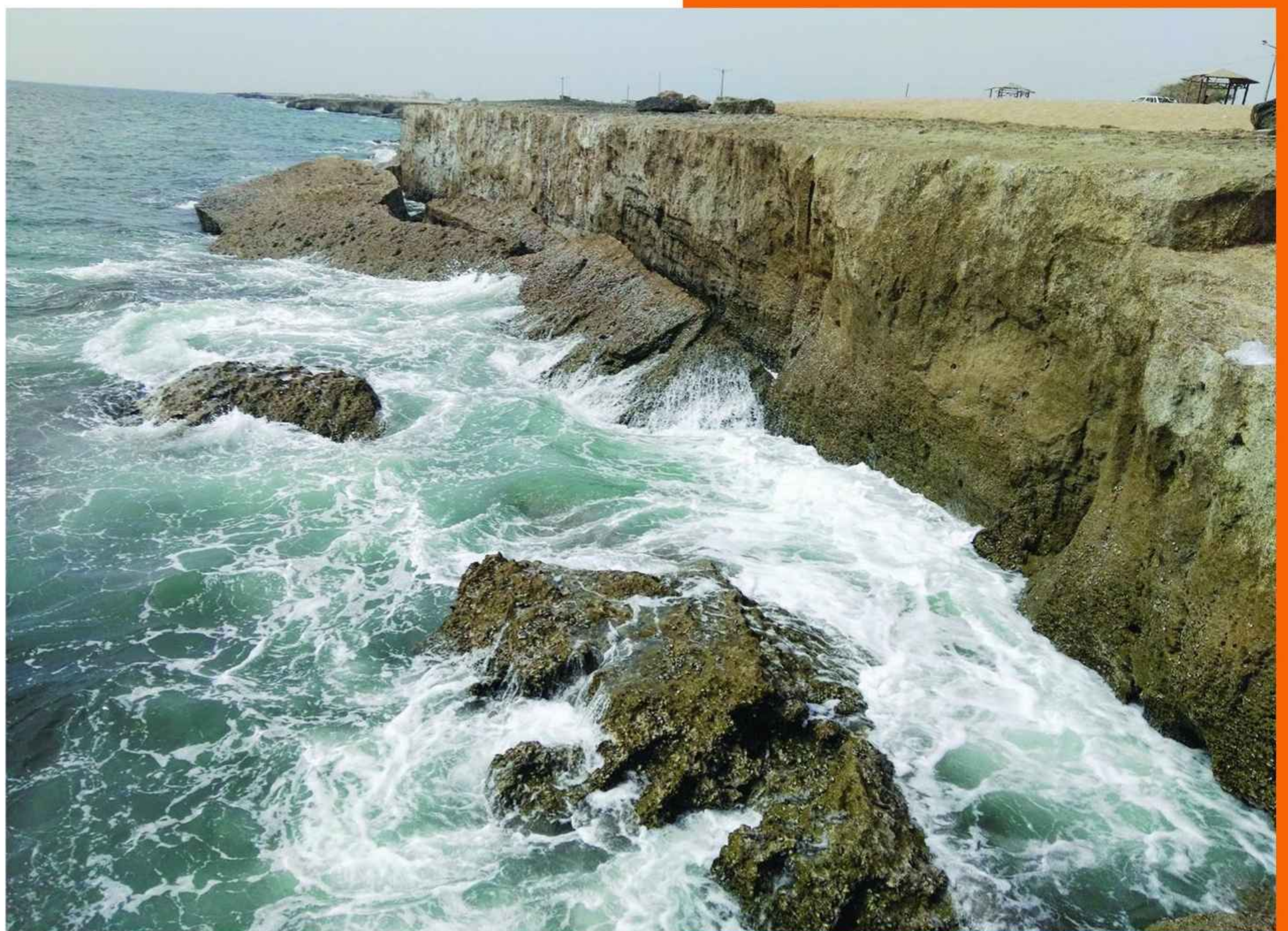
Research Institute for Earth Sciences, Iran

Main project manager:

Research Institute for Earth Sciences, Iran (Majid Pourkerman)

Internal/ External collaborator:

Research Institute for Earth Sciences, Iran



Geology ana AI

9 Project Name:

The Server-based Integrated and homogeneous thematic mapping in the Makran zone:

Artificial Intelligence and Deep Machine Learning

GeoNexus

Duration of the project:

2023-2026

Main financial funder:

Research Institute for Earth Sciences, Iran

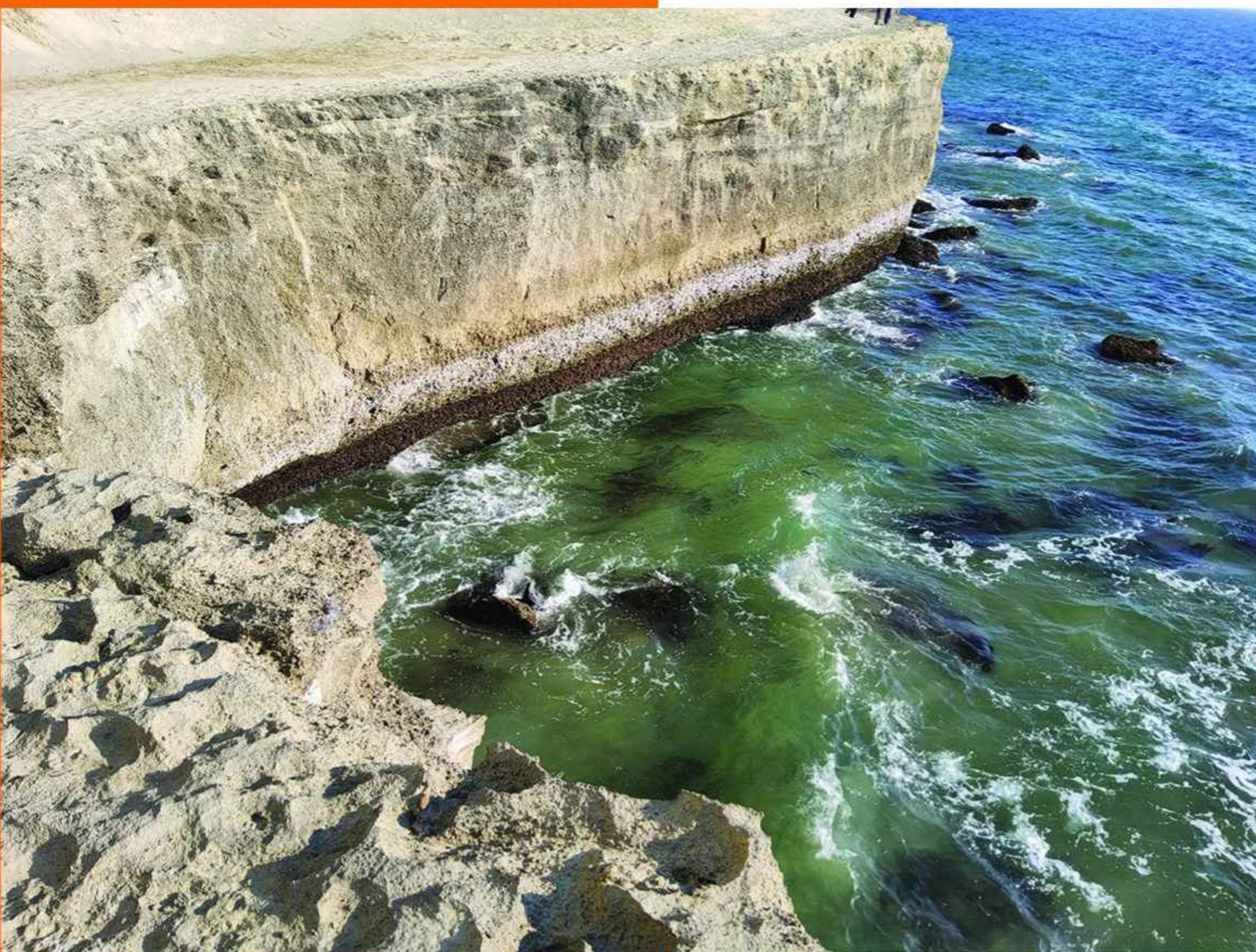
Main project manager:

Research Institute for Earth Sciences, Iran, (Hamid Nazari)

Internal/ External collaborator:

Research Institute for Earth Sciences

Tarbiat Modares University



10 Project Name:

Geodynamics and Geochemical Analysis in East Iranian Belt

Duration of the project:
2024-2025

Main project manager:
Research Institute for Earth Sciences, Iran, (Afshin Akbarpour)

Internal/ External collaborator:
University of Birjand
UCCGHA



Project Name:

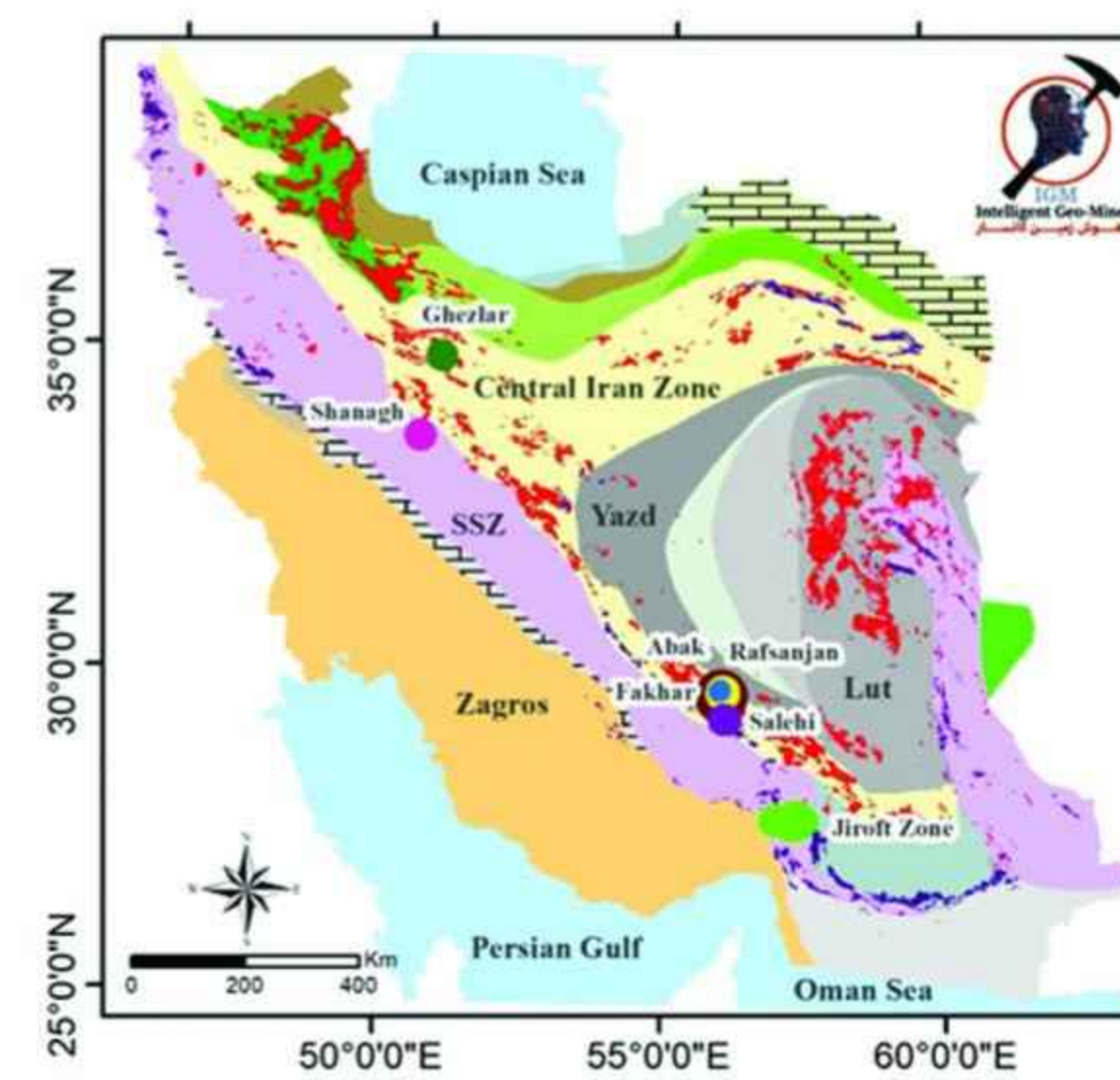
Mineral Resources & Mining (Exploration/ Extraction)

Duration of the Project:

2025

Main Project manager:

Intelligent Geo- Mine Co. (MB Dori)



12 Project Name:

MT Geophysical Surveying

Duration of the Project:

2025-2028

Main financial funder:

Geological Survey of Iran

Main Project manager:

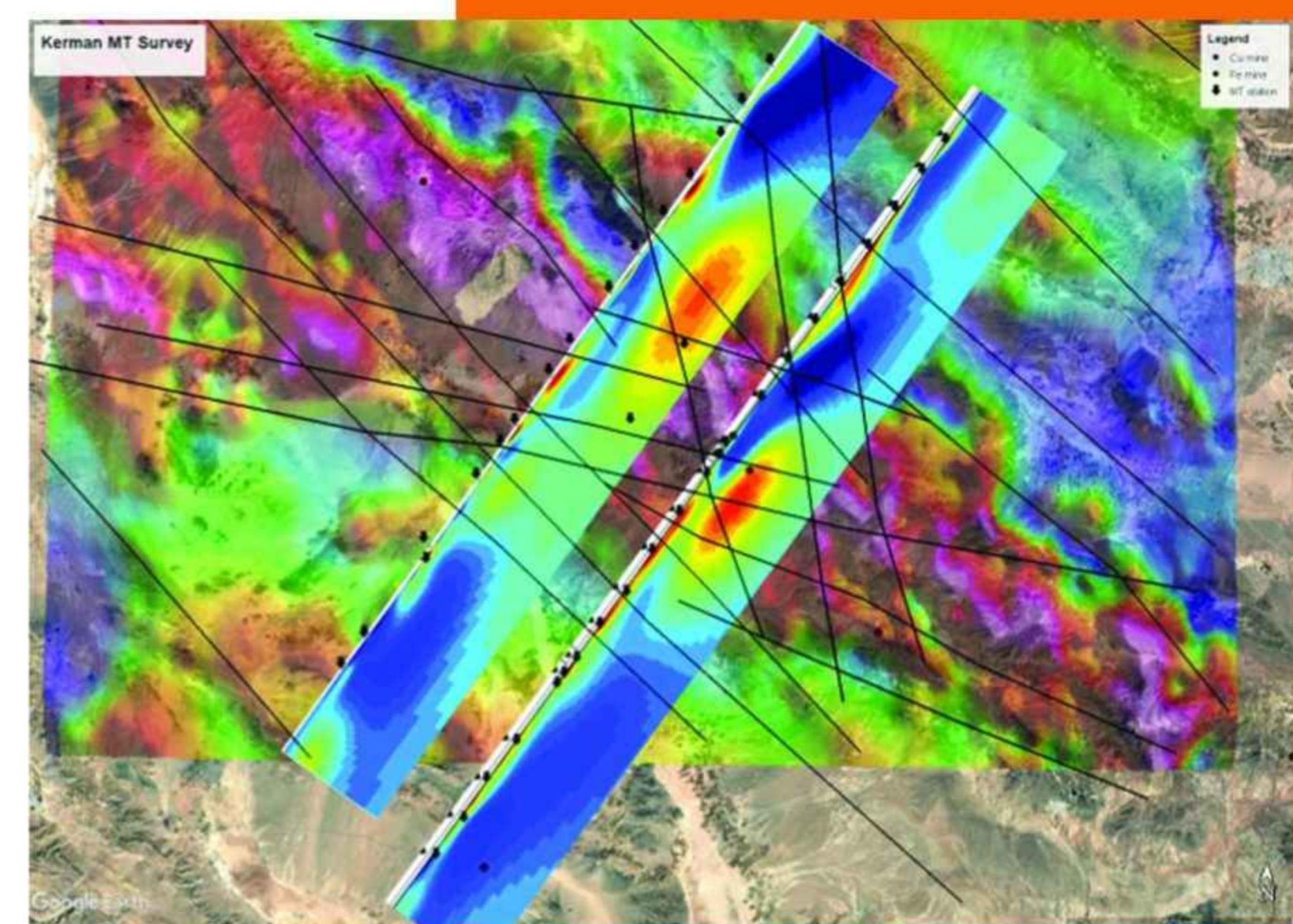
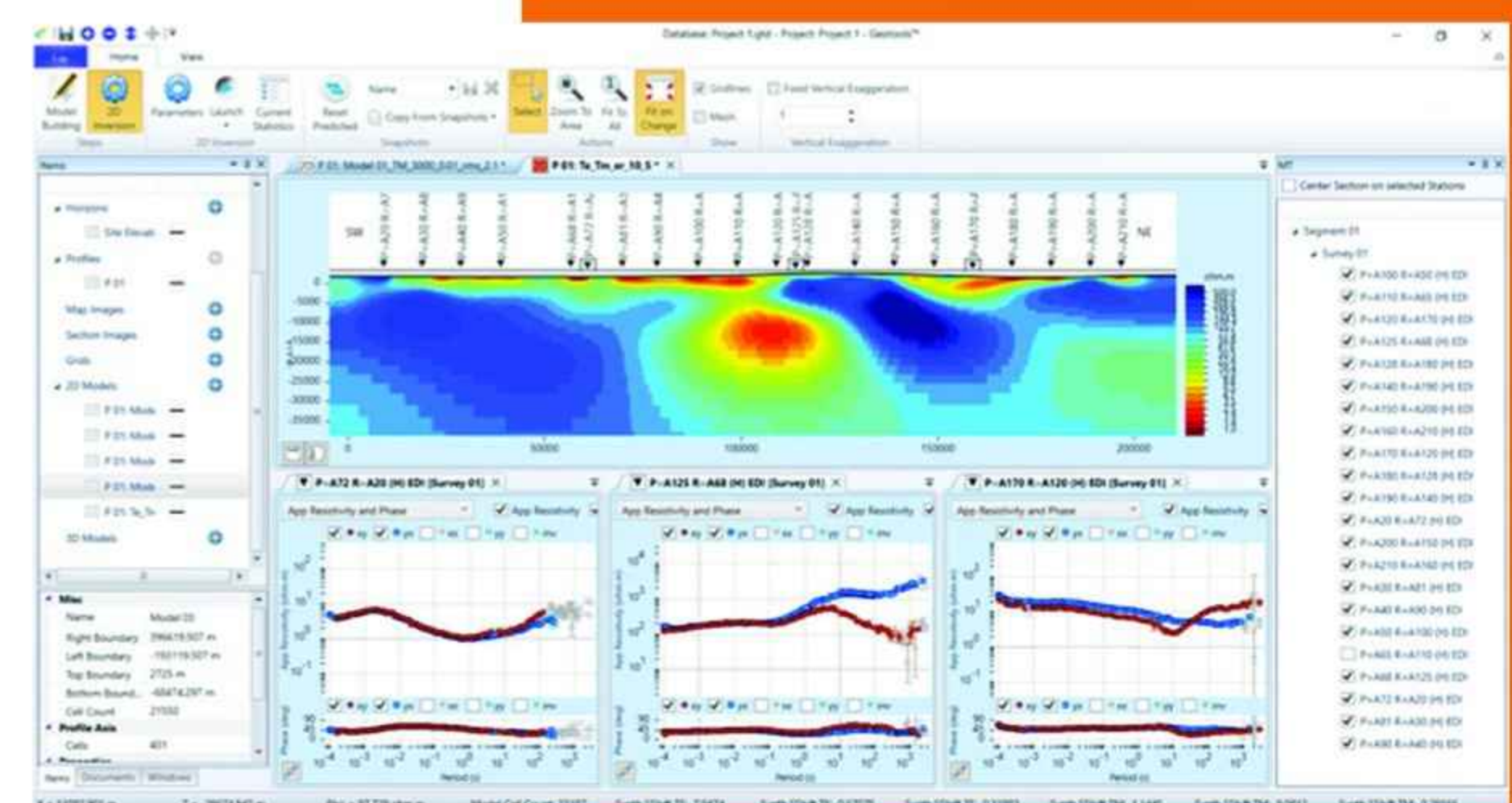
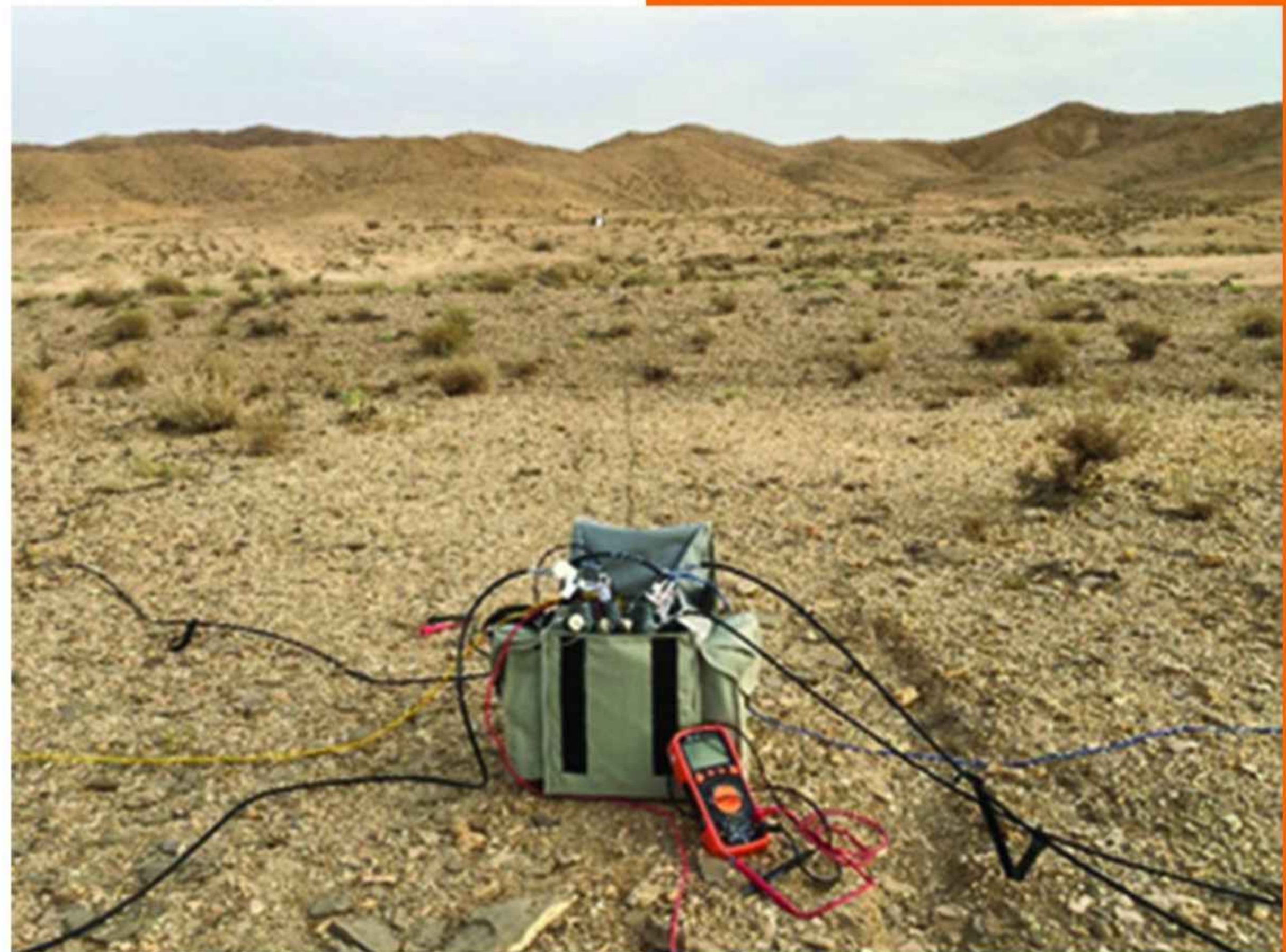
Research Institute for Earth Sciences

(M. Mohammadi Vizheh)

Internal/External Collaborator:

Intelligent Geo-Mine Co.

UCCGHA



13 Project Name:

Geochemical Mapping in Naein Area: Approach AI

Duration of the project: 2025

Main financial funder:

Geological Survey of Iran

Main project manager:

Research Institute for Earth Sciences
(Afshin Akbarpour)

Internal/ External collaborator:

IGM/ UCCGHA



14 Project Name:

Geological Mapping in Central Iran, Naein Project, SUTGMN

Duration of the project: 2025

Main financial funder:

Geological Survey of Iran

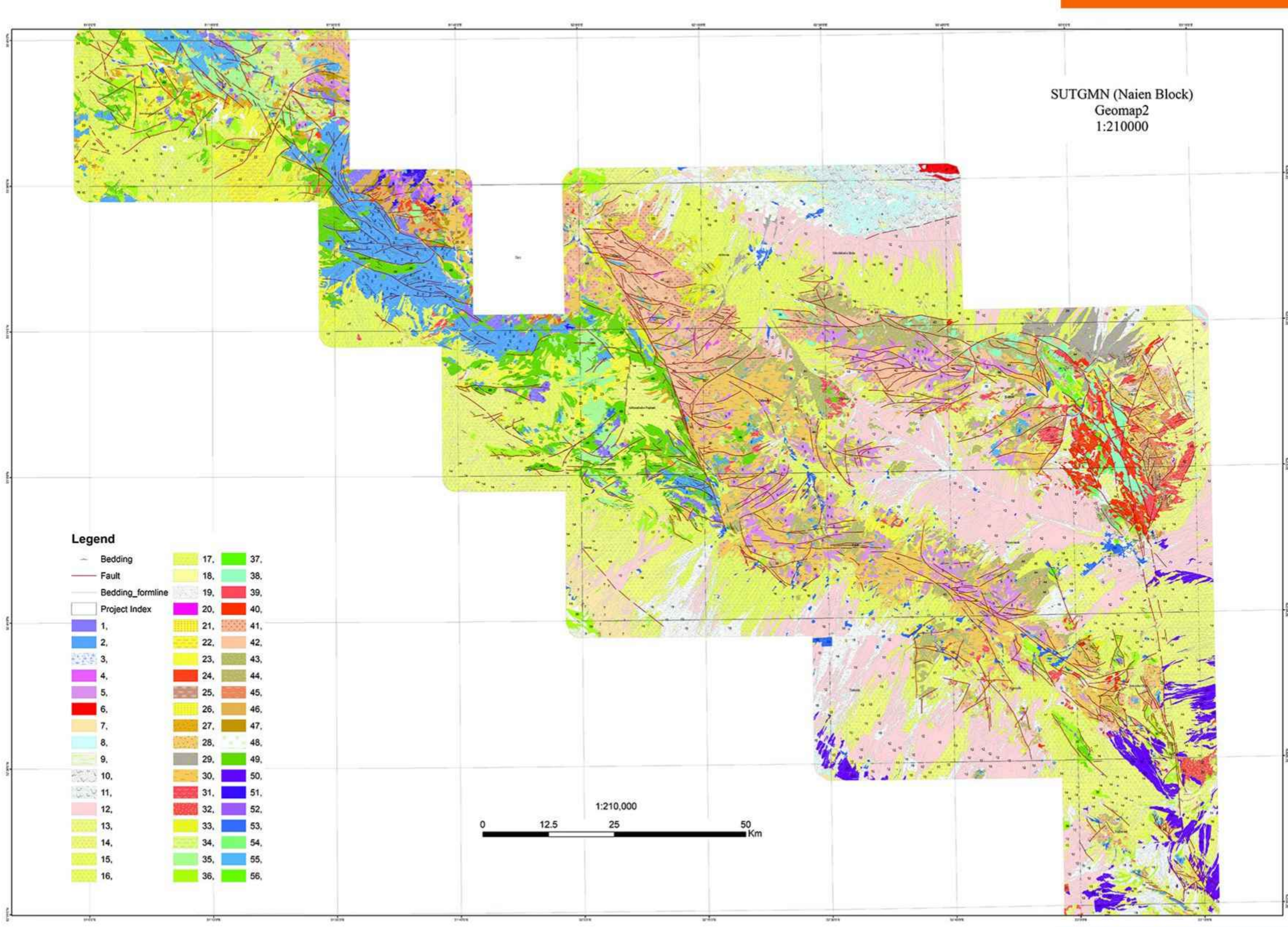
Main project manager:

Research Institute for Earth Sciences

(Hamid Nazari)

Internal/ External collaborator:

IGM/ UCCGHA/ TMU





15 Project Name:

Paleomagnetism of the Permian-Triassic boundary in Iran

Duration of the project:

2024 -2026

Internal/ External collaborator:

Research Institute for Earth Sciences, Iran, the UNESCO Chair on Coastal Geo-Hazard Analysis

Institute of Geology and Geophysics, Chinese Academy of Sciences (IGGCAS) in Beijing.



BOOKS BY UCCGHA MEMBERS

1 The Archaeology of Iran from the Palaeolithic to the Achaemenid Empire

By : Roger Matthews, Hassan Fazeli Nashli, Amy Richardson

2 Bioenergy and Hydrogen a Solution to Reduce Greenhouse Gas Emissions

By : Dr. Alireza Vaezi
Ammar Ghasenian Azizi
Dr. Hamid Nazari

3 Paleoseismology

(Selected Book of the Year in Iran)

Translated by: Hamid Nazari, Manouchehr Qarashi

4 Persian Gulf

By : Reza Behbahani and Razyeh Lak

5 Urmia Lake / Chapter 13

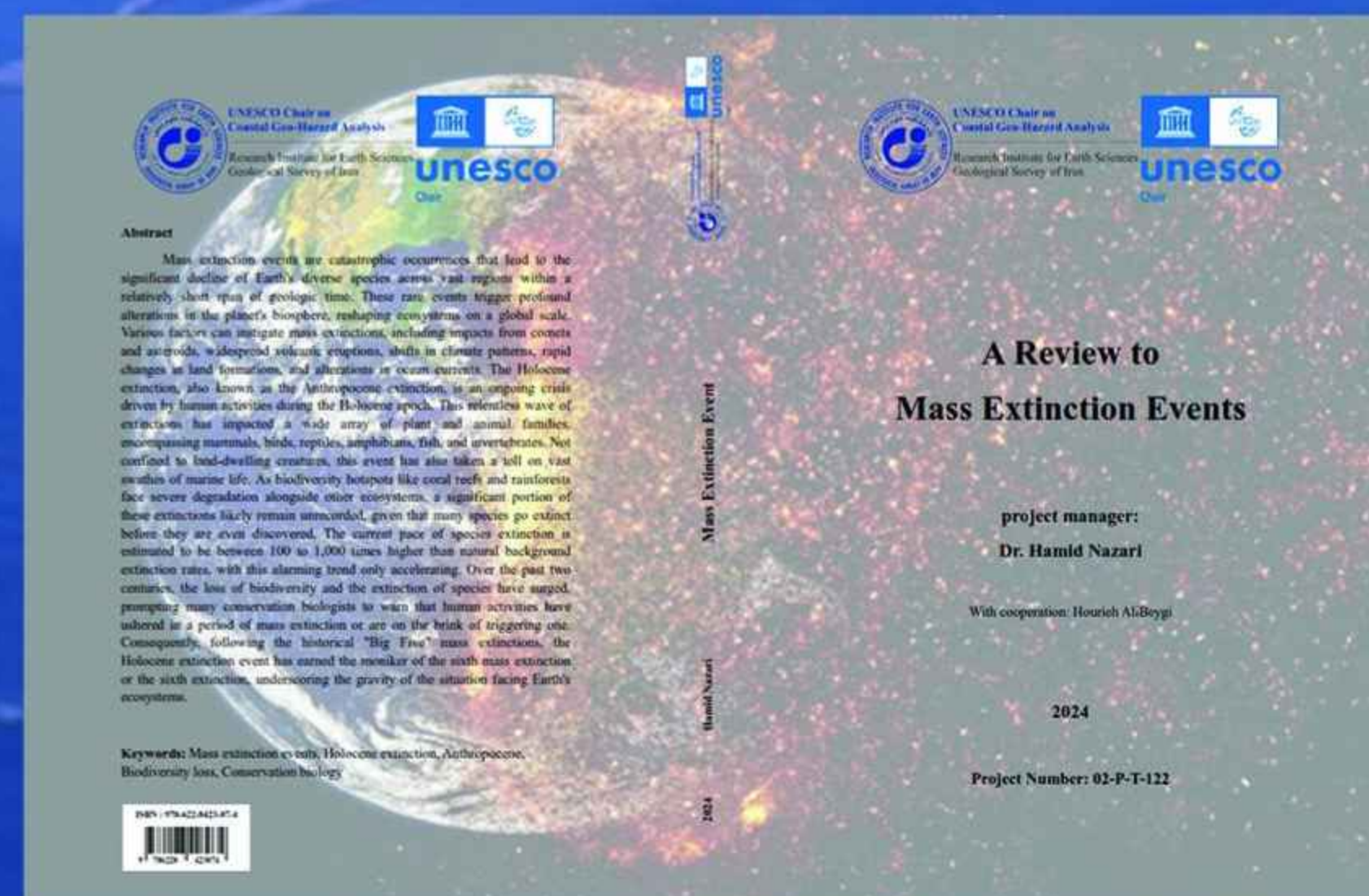
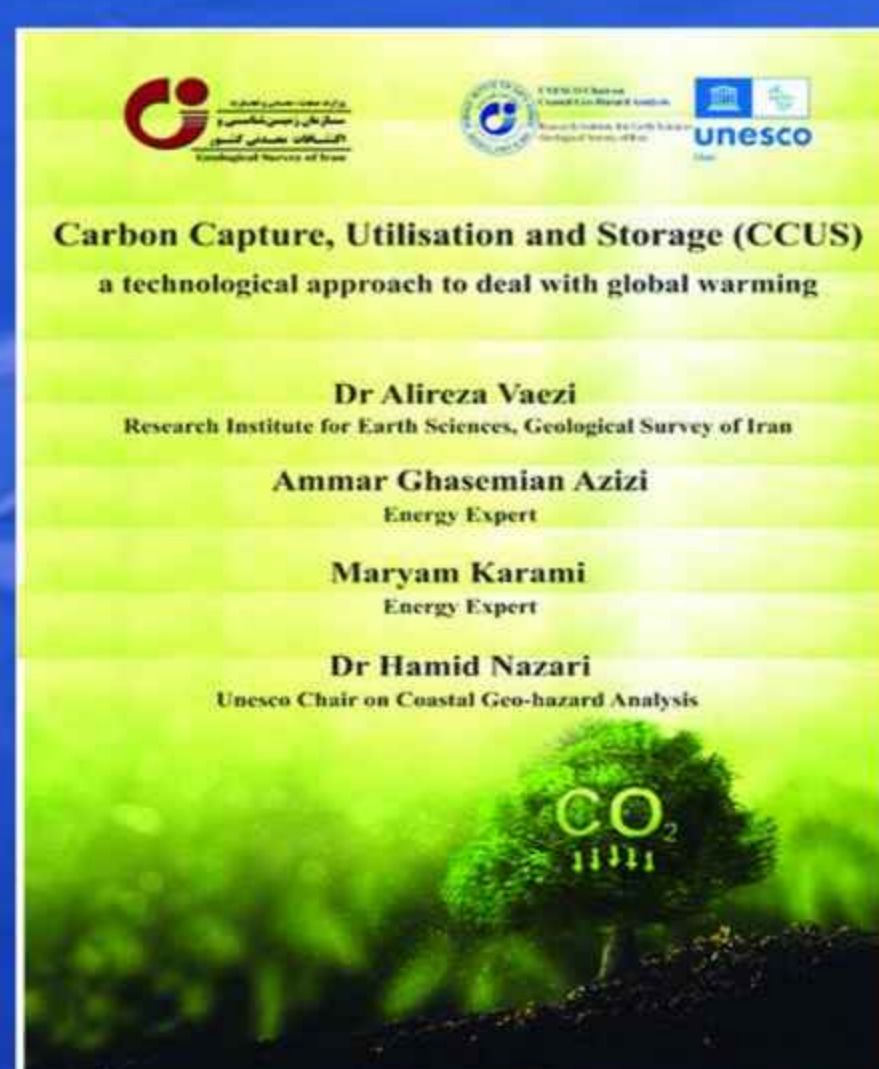
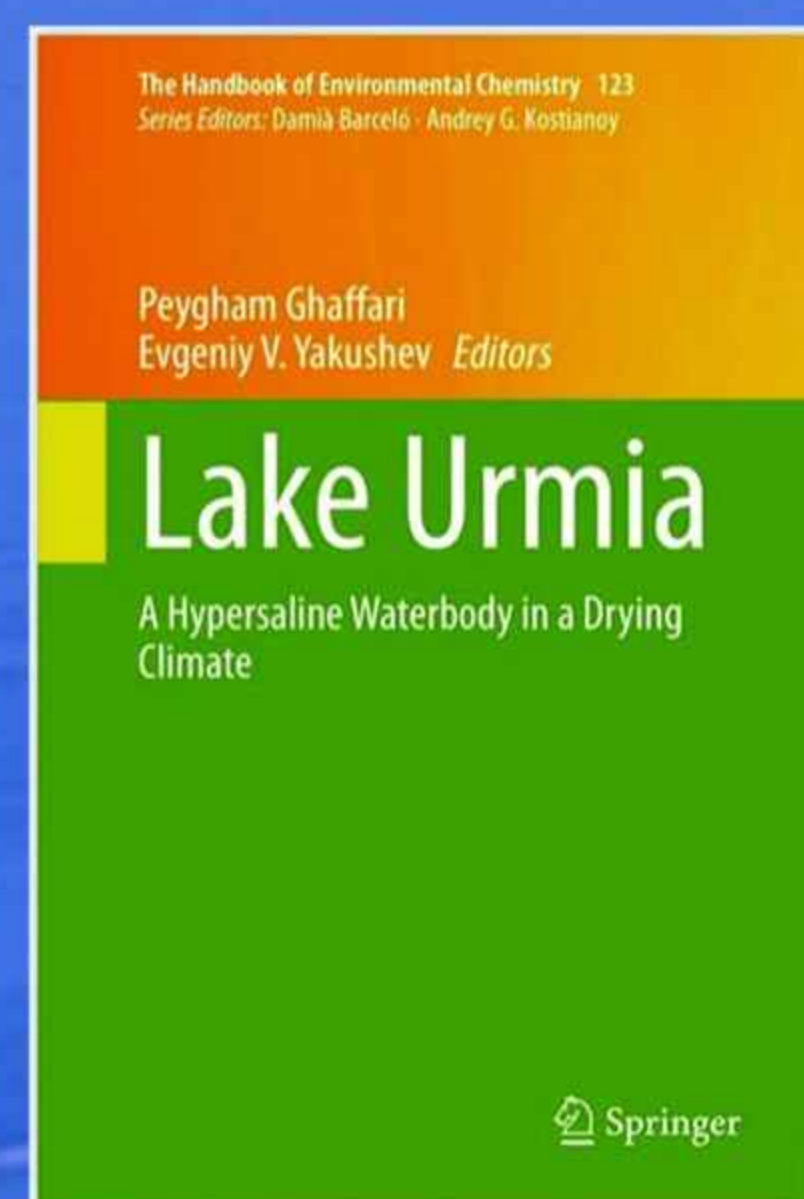
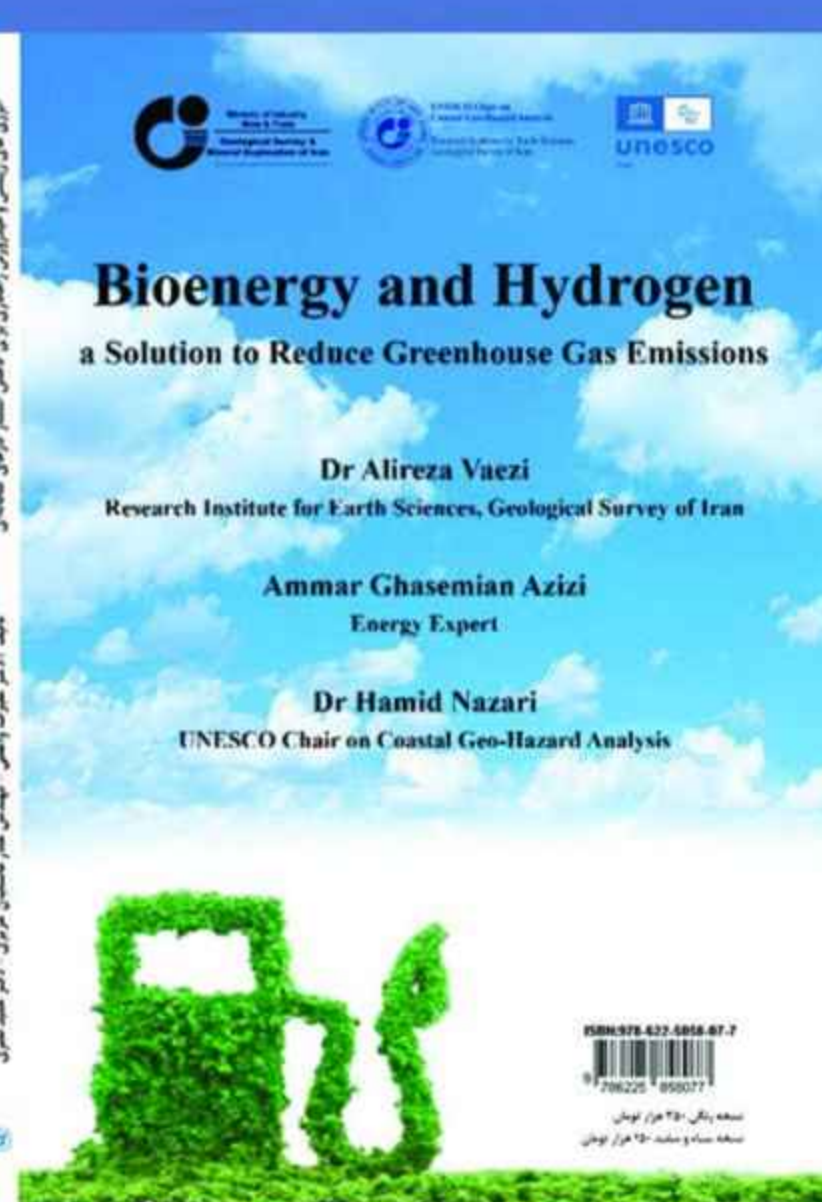
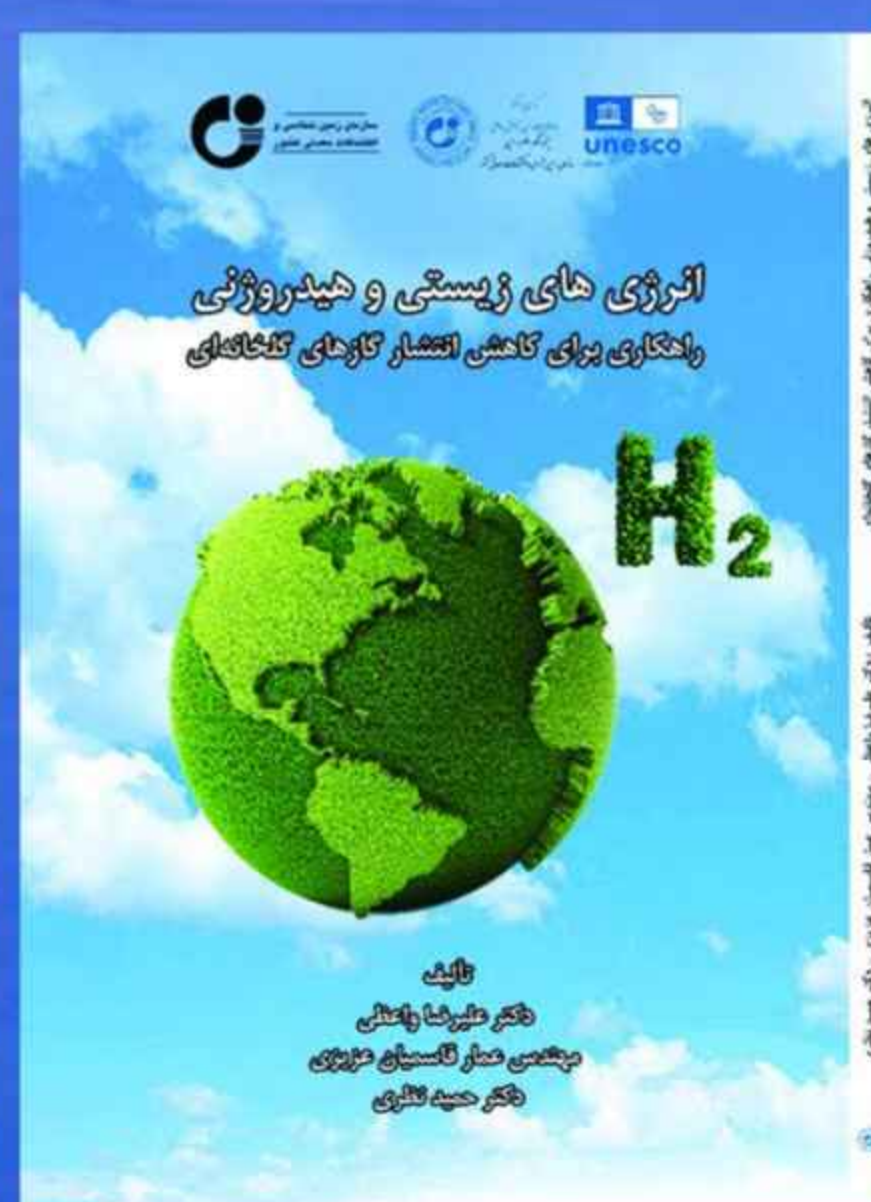
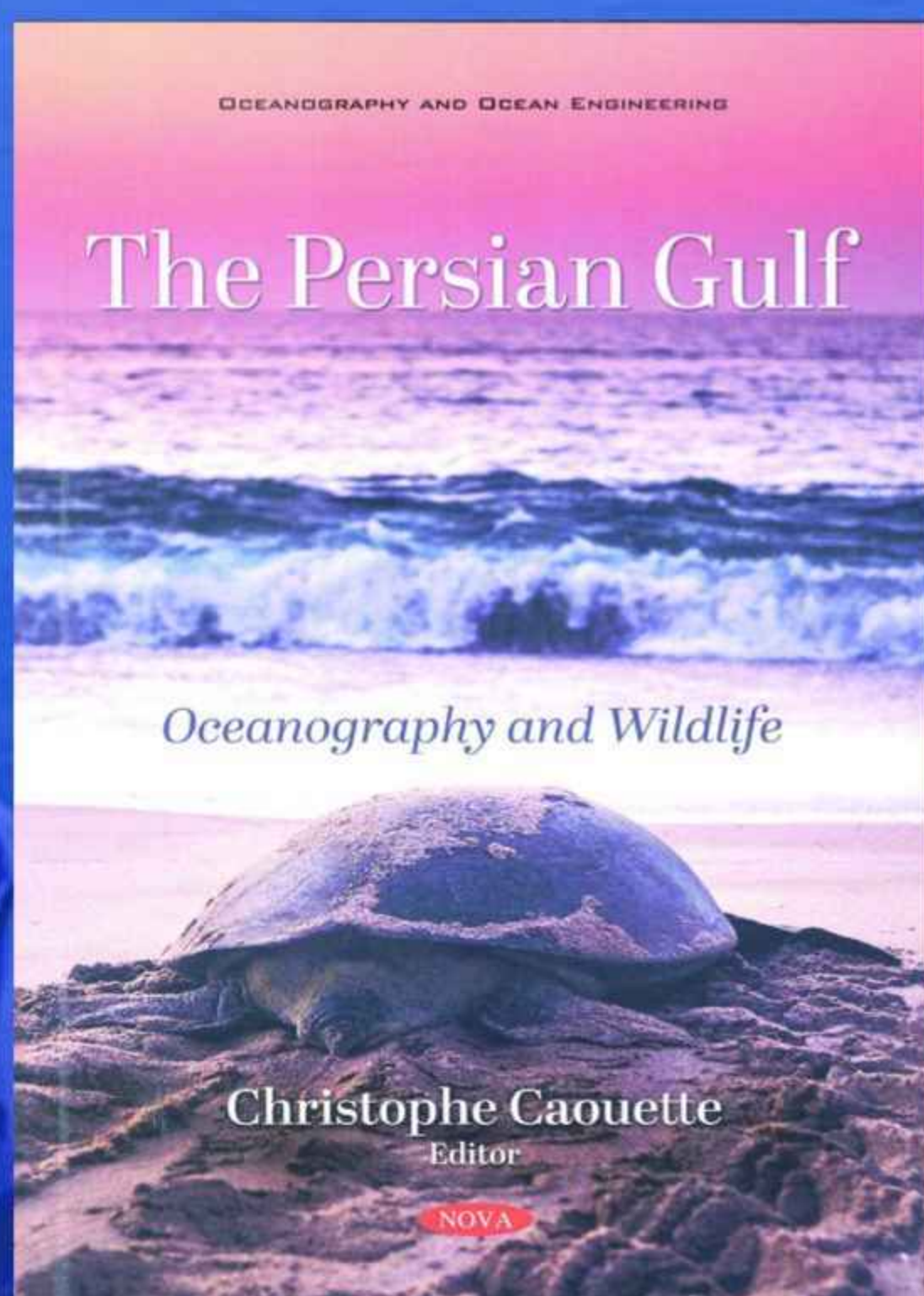
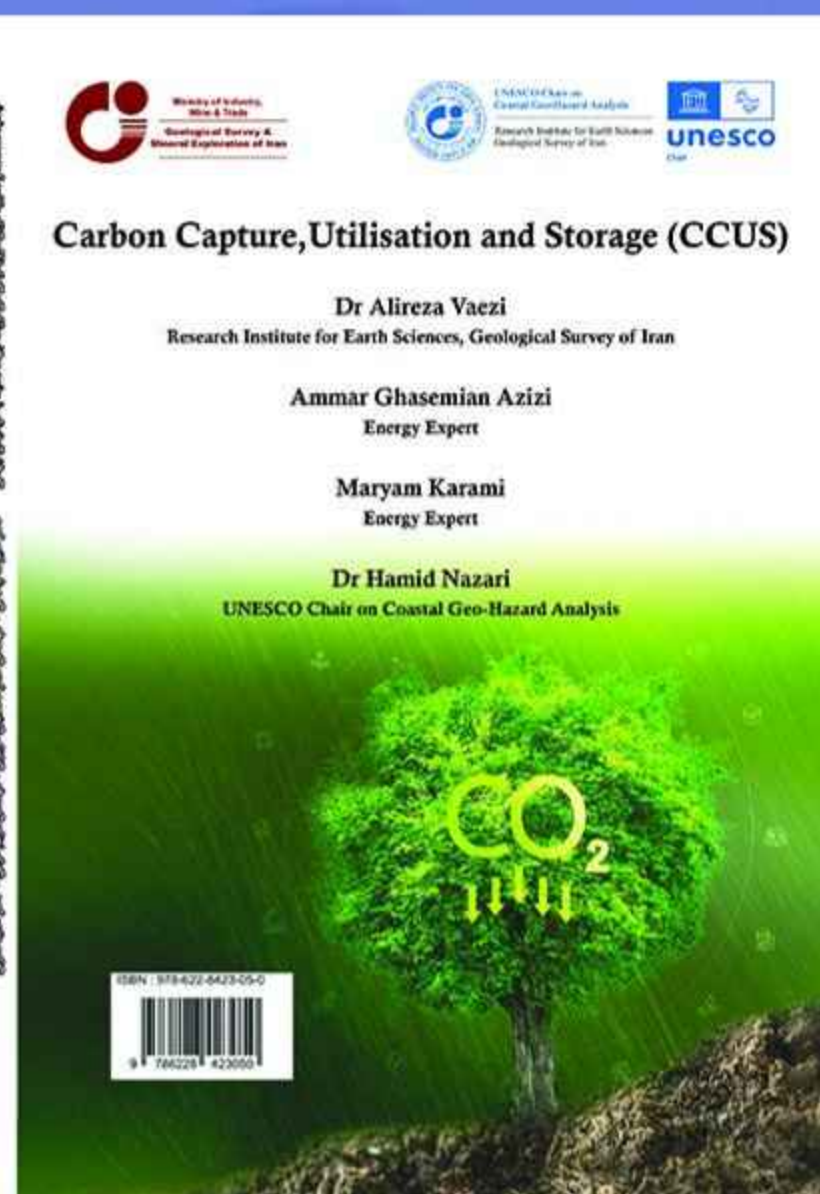
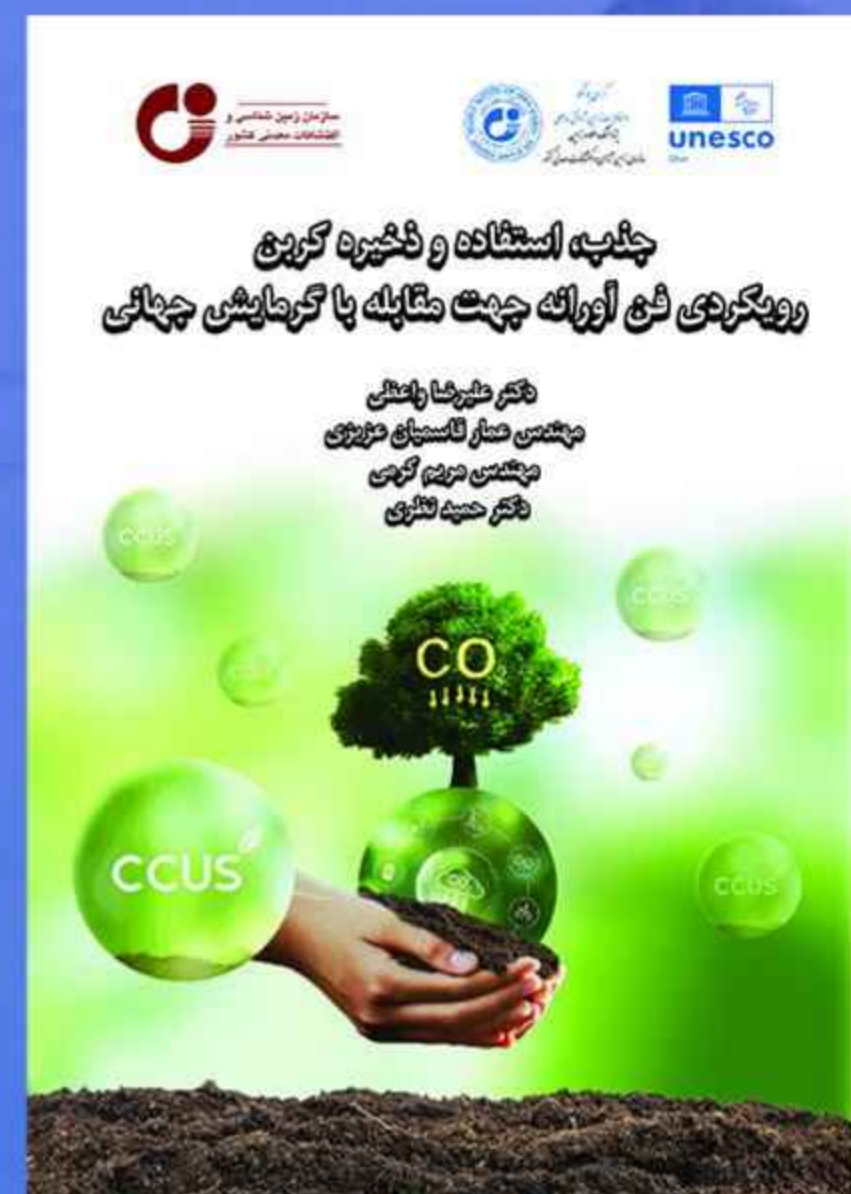
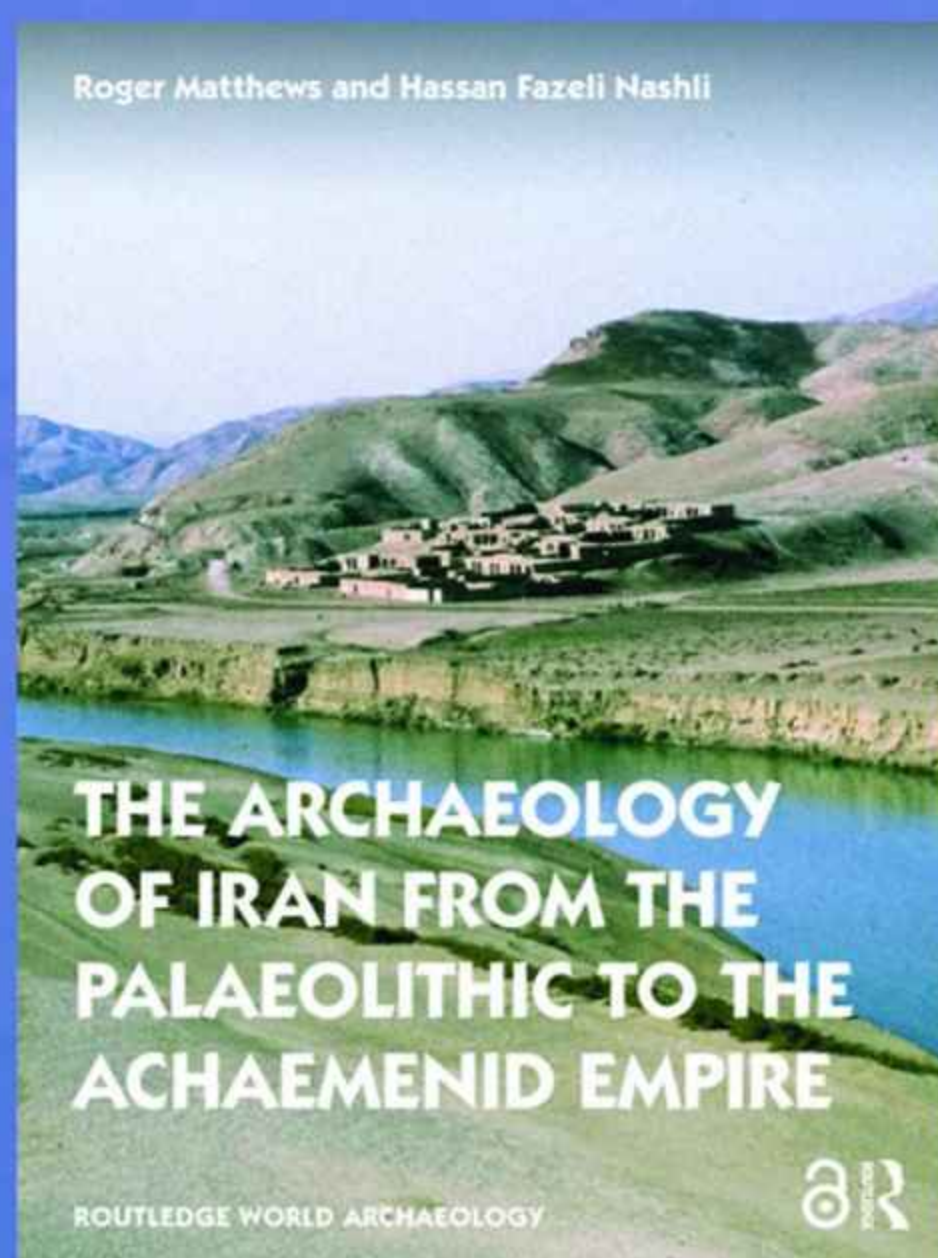
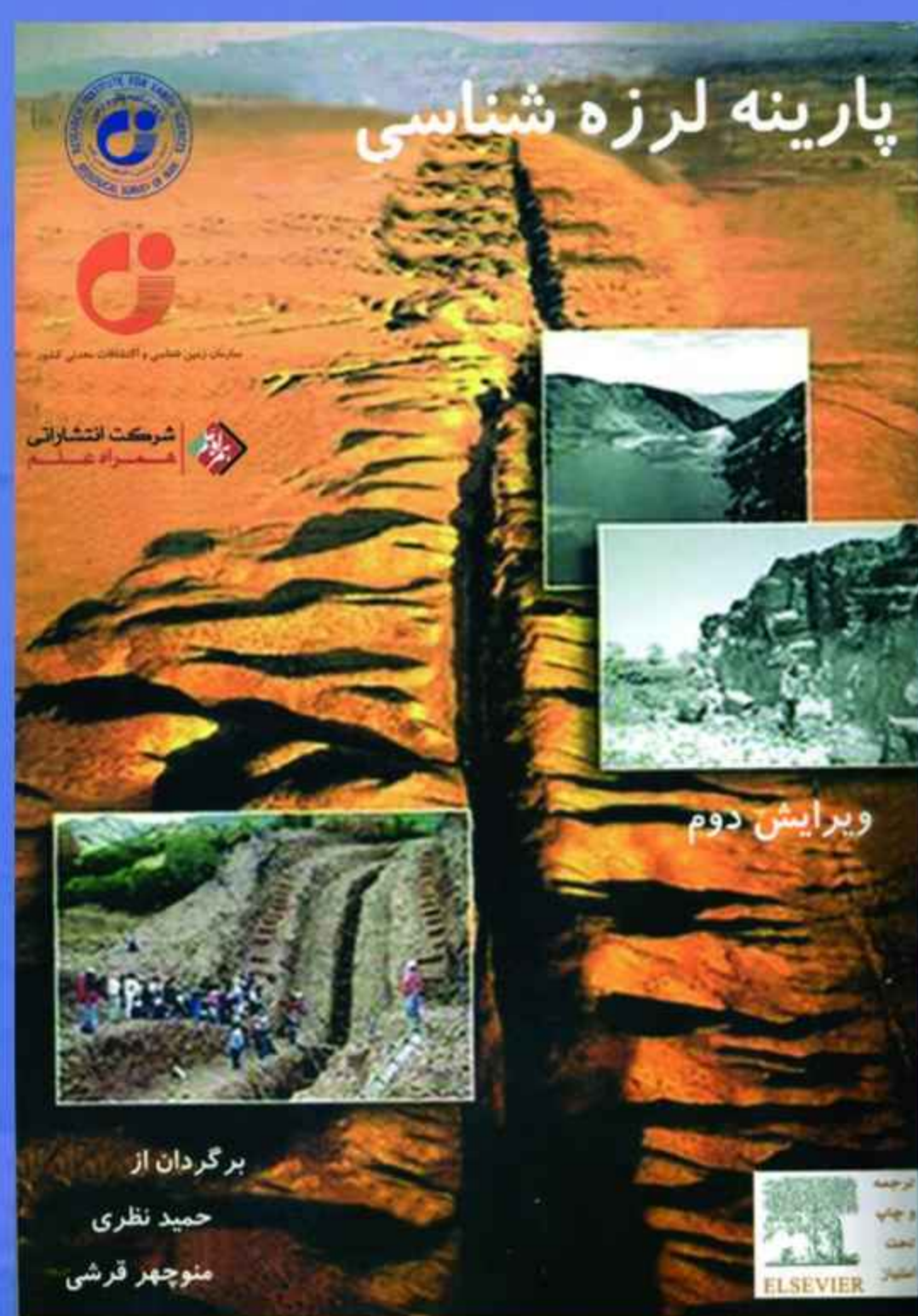
By: Razyeh Lak, Ali Mohammadi and Javad Darvishikhatooni

6 A Review to Mass Extinction Events

By: Dr. Hamid Nazari

7 Carbon Capture, Utilisation and Storage (CCUS)- A Technological Approach to Deal with Global Warming

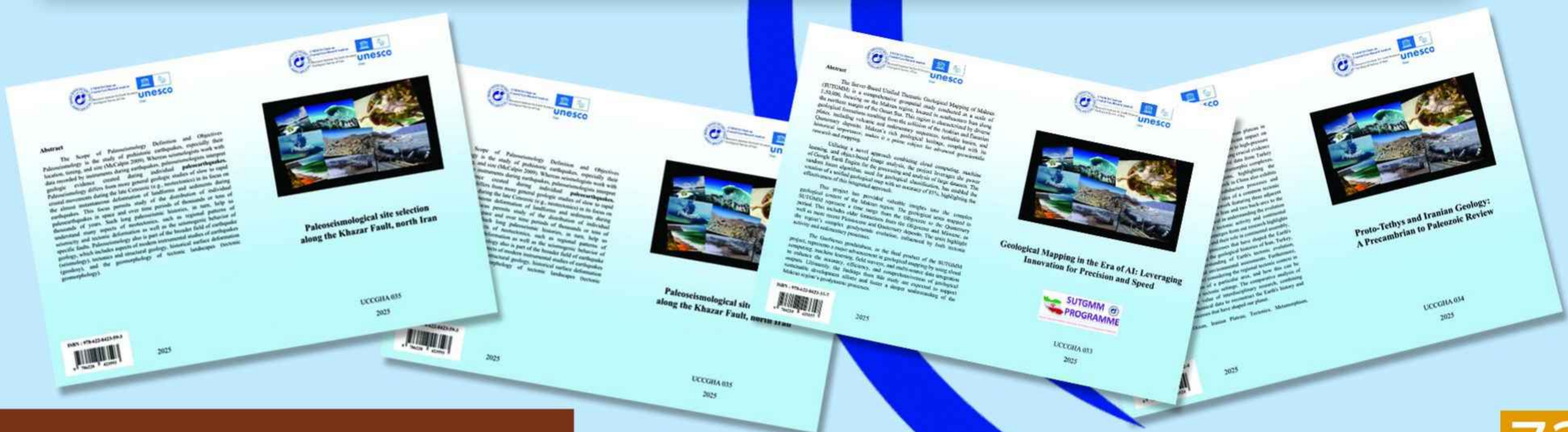
By: Dr. Alireza Vaezi
Ammar Ghasenian Azizi
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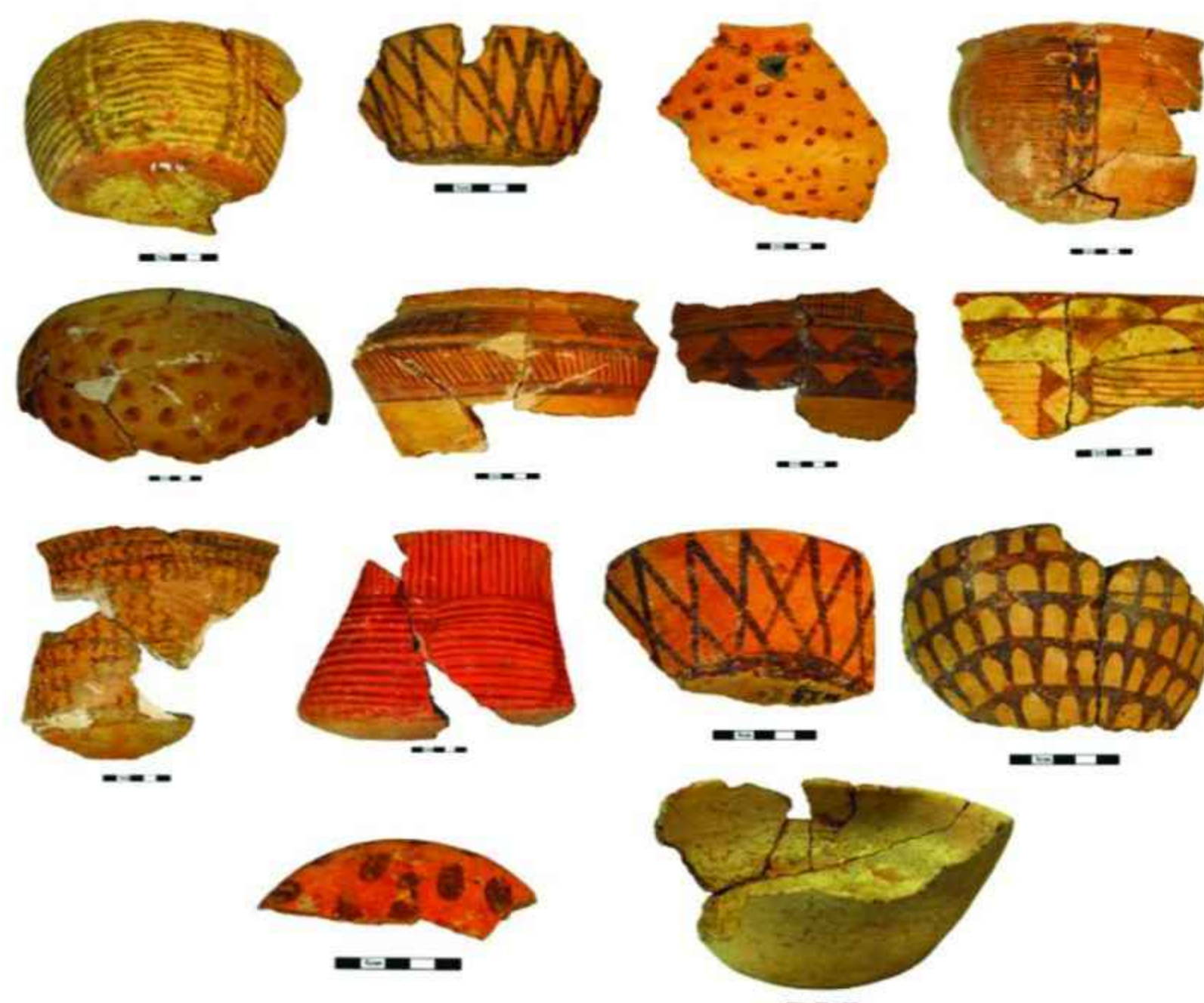
Supervisor: Dr. Hassan Fazeli Nashli

Dr. Hamid Nazari

Advisor: Mojtaba Safari

Name of Thesis: "An investigation of cultural transformation and its relationships between the climatic and environmental changes in the southeastern Caspian Sea from the Mesolithic to the Early Neolithic period"

Start: 2022



2-Student: Mojtaba Kavianpour

Supervisor: Dr. Hossein Mahmoudi Gharaei, Dr. Razyeh Lak

Advisor: Dr. Hamid Nazari

Name of Thesis: "Investigation of Sedimentology and geochemistry characteristic of South Gorgan Bay coastal zone (Caspian Sea)"

Start: 2021



3-Student: Reza Mohammadizadeh

Supervisor: Dr. Abdolreza Karbasi, Dr. Razyeh Lak

Advisor: Dr. Hamid Nazari, Dr. Hamid Alizadeh Larijani

Name of Thesis: "Identifying the changes of toxic metals in recent decades and its effect on the death of birds in the Miankaleh wetland (north-eastern Caspian Sea)"

Start: 2023



PUBLICATION ARTICLE

Full papers (JCR, SCOPUS and WOS) 2025- Scientific and Executive Members:

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- Parya Broomandi, Alfrendo Satyanaga, Mehdi Bagheri, Mostafa Hadei, David Galán-Madruga, Ali Mozhdahi Fard, Adib Roshani, Aram Fathian*, Amir Nourian, Michael Leuchner, Klaus Reichert*, Mehdi Hamidi, Prashant Kumar, Jong Ryeol Kim; Extreme Temperature Events in Kazakhstan and Their Impacts on Public Health and Energy Demand, *Journal of Global Challenges*, Volume 9, 2025.
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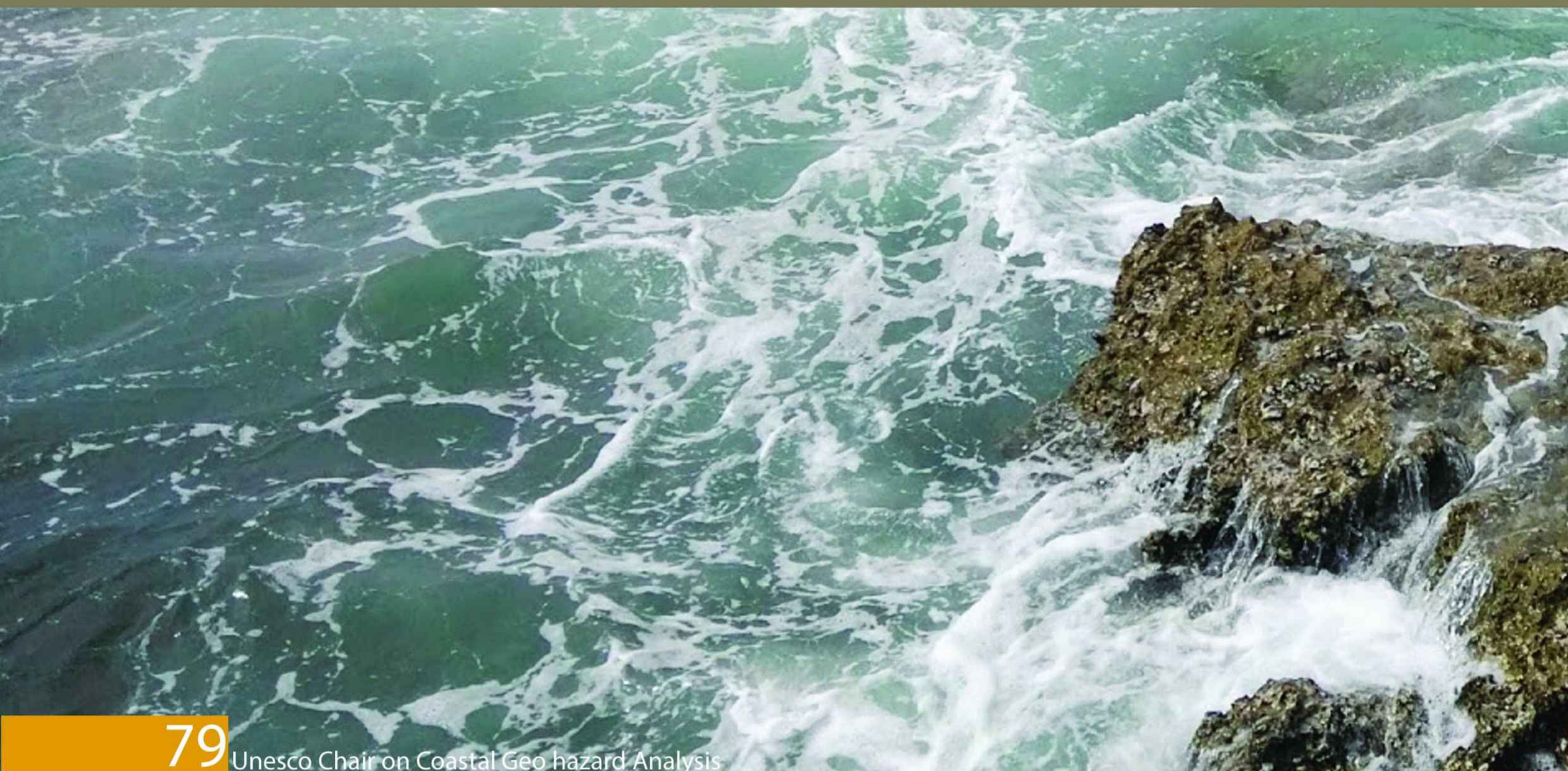
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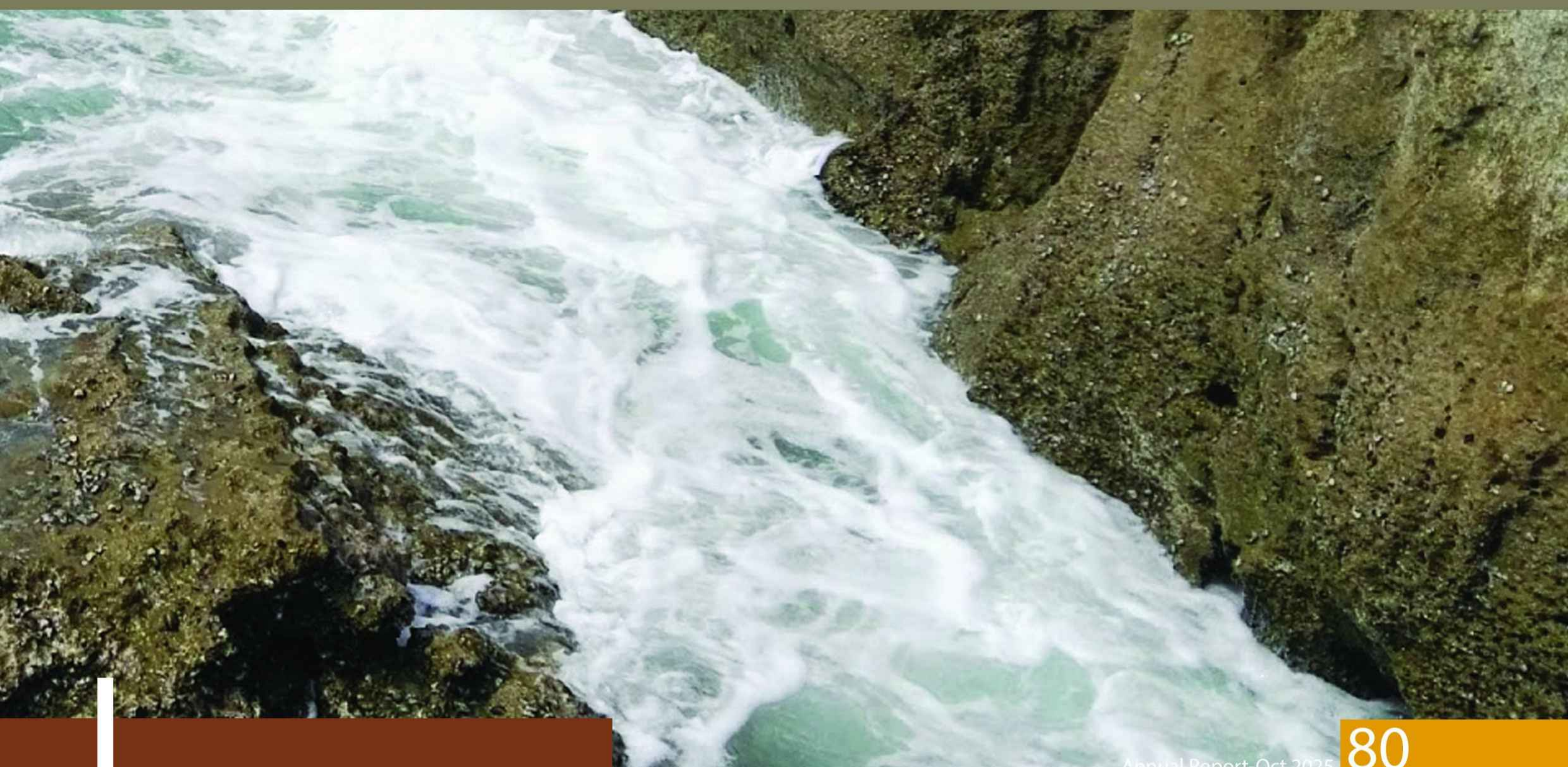
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Scientific Quarterly Journal of Geosciences, Vol. 35, Issue 2, Serial No. 136, Summer 2025, pp. 123-144

Original Research Paper

The first paleoseismological research on the Dorud fault: insights from the Darb Astana trench, southwestern Iran

Zahra Kamali^{1,2*}, Hamid Nazari¹, Syrus Esmaili¹, and Mahmoud Reza Hayhat¹

¹Department of Geology, Faculty of Sciences, University of Birjand, Birjand, Iran
²Geological Survey of Iran, Khorram Abad, Iran
³Research Institute for Earth Sciences, Geological Survey of Iran, Tehran, Iran
⁴Geological Survey of Iran, Tabriz, Iran

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Global and Planetary Change
Volume 254, November 2025, 105038

Research Article

A climate of conflict: How the little ice age sparked rebellions and revolutions across Europe

David Kaniewski^{a,1}, Nick Marriner^{b,1}, Frédéric Luce^a, Morgane Escarpe^a, Majid Pourkerman^c, Thierry Otto^a

^a Centre de Recherche sur la Biodiversité et l'Environnement (CRBE), Université de Toulouse, CNRS, IRD, Toulouse INP, Toulouse, France
^b CNRS, ThéMA, Université Marie et Louis Pasteur, UMR 6049, MSHE Ledoux, 32 rue Mégevand, 25030 Besançon Cedex, France
^c Research Institute of Earth Sciences, Geological Survey of Iran, Meraj Boulevard, Azadi Square, Tehran, Iran

Received 28 March 2025, Revised 19 August 2025, Accepted 19 August 2025, Available online 21 August 2025. Version of Record 24 August 2025.

FURTHER PLANNING FOR UCCGHA 2026

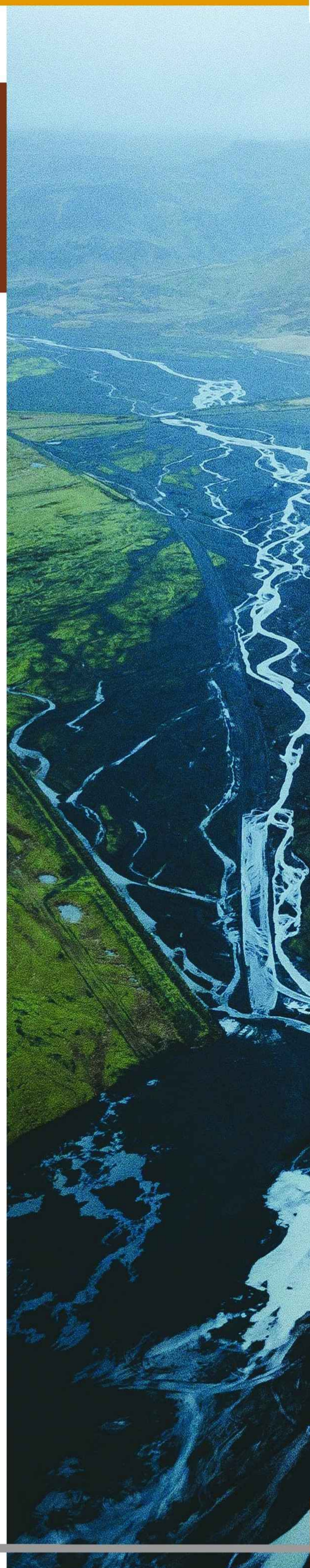
The UNESCO Chair on Coastal Geo-Hazard Analysis (UCCGHA) aims to enhance partnerships with international universities, research institutions, government agencies, the private sector, and industry stakeholders to maximize the impact of its initiatives. By leveraging advanced technology and innovative strategies, the UCCGHA seeks to create a robust framework for analyzing geoarchaeological and environmental data, which will help protect vulnerable heritage sites, monitor coastal geomorphological changes, assess coastal geohazards, and improve resilience in coastal areas.

Acknowledging the urgency of environmental change, our projects will also emphasize expanding thematic server-based geological mapping and atmospheric analysis to support white hydrogen research, assess drought impacts, and restore ecosystems. Democratizing these platforms will provide access to researchers, students, and local stakeholders, thereby bridging science, society, and policy.

The UNESCO Chair will continue to support UNESCO's mission by promoting resilience, preserving cultural heritage, and encouraging sustainable environmental practices. Future initiatives will strengthen interdisciplinary research in geoarchaeology, paleoclimatology, seismic hazard analysis, and AI-driven geological mapping, generating actionable insights to address evolving challenges in coastal and environmental systems. Building on the legacy of the Persian Carpet Project (2021–2025), the UCCGHA will launch two major projects: the Server-Based Unified Thematic Geological Mapping in Makran (SUTGMM) and AI-GEOARCH: Decoding Extreme Events and Human Resilience in the Persian Gulf.

Looking ahead, the UCCGHA will seek new funding opportunities and strategic partnerships to effectively implement its expanding research programs. By encouraging interdisciplinary collaboration, we will involve researchers in geology, geoarchaeology, palynology, paleoclimatology, environmental science, and AI engineering to enhance our methodologies and amplify the impact of our research. These collaborative efforts are vital for initiatives focused on hazard assessment, cultural heritage preservation, and sustainable development.

The UCCGHA envisions a future where interdisciplinary approaches in geological sciences contribute to sustainable development solutions. Through ongoing collaboration and innovation, we aim to align with the Paris Agreement objectives, promoting resilience and environmental awareness in society.





Contact info:

UNESCO Chair on Coastal Geo-Hazard Analysis, (UCCGHA)
Research Institute for Earth Sciences, (RIES)
Geological Survey of Iran, (GSI)
Meraj St., Azadi Sq., Tehran, Iran

PO. Box: 13185-1494

Code Postal: 1387835841

Tel: +98 21 66070518

Fax: +98 21 66070511

Email: uccgha.ries@gmail.com

Websites: <https://unescoiran.com>