<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Registration opens</td>
<td>VHL entrance</td>
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<tr>
<td>09:30 – 10:00</td>
<td>Welcome and introduction to the conference&lt;br&gt;Angelica Kaus, Director SalFar Project&lt;br&gt;Jan van Iersel, Chair van Hall Larenstein&lt;br&gt;Pier Vellinga, Wadden Academy</td>
<td>Auditory F.002</td>
</tr>
<tr>
<td>10.00 – 11:00</td>
<td>Keynote speeches&lt;br&gt;10:00 – 10:30 Dionysia Aggeliki Lyra, ICBA&lt;br&gt;10:30 – 11:00 Willem Ferwerda, CEO Commonland</td>
<td>Auditory F.002</td>
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<tr>
<td>11:00 – 12:00</td>
<td>Opening of the fair and poster presentations</td>
<td>Studiekeantine/</td>
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<tr>
<td>12:00 – 13:00</td>
<td>Lunch&lt;br&gt;Welcome by Douwe Hoogland, Member of the Executive Council, Province of Friesland</td>
<td>Studiekeantine/</td>
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<tr>
<td>13:00 – 13:30</td>
<td>Keynote speech&lt;br&gt;13:00 – 13:30 Marc van Rijsselberghe, pioneer entrepreneur&lt;br&gt;Salt Farm Foundation</td>
<td>Auditory F.002</td>
</tr>
<tr>
<td>13:30 – 15:30</td>
<td>Parallel sessions&lt;br&gt;I Addressing Climate Change and Food Security&lt;br&gt;V Experiments and promising crops&lt;br&gt;IX Revitalization of saline degraded soils</td>
<td>Room F.112</td>
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<td>Room F.129</td>
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<td>Room S.110</td>
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<tr>
<td>15:30 – 16:00</td>
<td>Coffee break and poster presentations</td>
<td>Studiekeantine/</td>
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<td>hallway</td>
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<tr>
<td>16:00 – 18:00</td>
<td>Parallel sessions&lt;br&gt;II Awareness raising and capacity building for saline farming&lt;br&gt;VI Promising crops for saline farming&lt;br&gt;X Traits affecting salinity tolerance</td>
<td>Room F.112</td>
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<td>Room S.110</td>
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<tr>
<td>18:30 – 19:30</td>
<td>Welcome reception by Wetsus&lt;br&gt;Introduction to Wetsus – Cees Buijs, Director, and Jan Post, Director of Programs</td>
<td>Walk together to Wetsus</td>
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### Programme

**11 September 2019**

Chair of the day: Margot Faber, Province of Groningen

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Location</th>
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<tbody>
<tr>
<td><strong>09:00 – 10:00</strong></td>
<td>Plenary sessions</td>
<td>Auditory F.002</td>
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<tr>
<td><strong>09:00 – 09:30</strong></td>
<td>Genetic characterization of salinity tolerance traits to increase salinity tolerance in crops&lt;br&gt;- Mark Tester, KAUST</td>
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<tr>
<td><strong>09:30 – 10:00</strong></td>
<td>“Living with salinity” Can saline agriculture contribute in a sustainable and profitable way?&lt;br&gt;- Arjen de Vos, Saline Farming</td>
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<tr>
<td><strong>10:00 – 10:15</strong></td>
<td>Introduction to EPI AGR.I Working Group&lt;br&gt;- Iain Gould</td>
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<tr>
<td><strong>10:15 – 11:00</strong></td>
<td>Coffee break and poster presentations</td>
<td>Studiekantine/hallway</td>
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<tr>
<td><strong>11:00 – 13:00</strong></td>
<td>Parallel sessions</td>
<td>Room F.112, F.110, F.129</td>
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<tr>
<td><strong>III  Food-water-energy nexus</strong></td>
<td></td>
<td>Room F.112</td>
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<tr>
<td><strong>VII  Salinity adapted cultivation strategies</strong></td>
<td></td>
<td>Room F.129</td>
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<tr>
<td><strong>XI Interactions among salinity, roots and microbial communities</strong></td>
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<td>Room F.110</td>
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<tr>
<td><strong>13:00 – 14:00</strong></td>
<td>Lunch</td>
<td>Studiekantine</td>
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<tr>
<td><strong>14:00 – 15:00</strong></td>
<td>Plenary sessions</td>
<td>Auditory F.002</td>
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<tr>
<td><strong>14:00 – 14:30</strong></td>
<td>Climate change induced salinization as a growing global challenge&lt;br&gt;- Atiq Rahman, Bangladesh Center for Advanced Studies</td>
<td>Room F.112</td>
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<tr>
<td><strong>14:30 – 15:00</strong></td>
<td>Global opportunities and constraints&lt;br&gt;- Katarzyna Negacz, Waddenacademie</td>
<td>Room F.129</td>
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<tr>
<td><strong>15:00 – 15:30</strong></td>
<td>Coffee break and poster presentations</td>
<td>Studiekantine/hallway</td>
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<tr>
<td><strong>15:30 – 17:10</strong></td>
<td>Parallel sessions</td>
<td>Room F.112, F.129</td>
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<tr>
<td><strong>IV Fresh and brackish water management in potentially saline soils</strong></td>
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<td>Room F.112</td>
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<tr>
<td><strong>VIII Innovation and practical experience at farm level</strong></td>
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<td>Room F.129</td>
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<tr>
<td><strong>XII Alternative use of salt-tolerant plants</strong></td>
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<td>Auditory F.002</td>
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<tr>
<td><strong>17:30 – 18:00</strong></td>
<td>Report on priorities from the parallel international farmers meeting</td>
<td>Auditory F.002</td>
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<tr>
<td><strong>18:00 – 18:30</strong></td>
<td>Conclusions from the parallel sessions by Pier Vellinga</td>
<td>Kantine/hallway</td>
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<tr>
<td><strong>18:30</strong></td>
<td>Refreshments</td>
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<tr>
<td><strong>19:30</strong></td>
<td>CONFERENCE DINNER</td>
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</tbody>
</table>
SCIENTIFIC COMMITTEE

The Saline Futures Scientific Committee's role is advising on the programme, reviewing all submitted abstracts, selecting presentations and posters.

Prof. Henrik Aronsson  
(University of Gothenburg, Sweden)

Prof. Pier Vellinga  
(Waddenacademy, Netherlands)

Prof. Theo Elzenga  
(University of Groningen, Netherlands)

Dr. Anne Asselin de Williencourt  
(NMBU, Norway)

Dr. Bas Bruning  
(Saline Farming, Netherlands)

Dr. Dennis Corwin  
(USDA-ARS, U.S. Salinity Laboratory)

Dr. Dionysia Aggeliki Lyra  
(ICBA, United Arab Emirates)

Dr. Ed Barrett-Lennard  
(Munich University and The University of Western Australia, Australia)

Dr. Gary Bosworth  
(University of Lincoln, UK)

Dr. Jeroen De Waegemaeker  
(ILVO, Belgium)

Dr. Laurids Siig Christensen  
(Taste of Denmark/VIFU)

Dr. Leena Karrasch  
(University of Oldenburg, Germany)

Dr. Maria Konyushkova  
(Lomonosov Moscow State University, Russia)

Dr. Redouane Choukr-Allah  
(Institut Agronomique et Vétérinaire Hassan II Morocco)

Dr. Sara Marjani Zadeh  
(FAO, Turkey)

ORGANISING COMMITTEE

The Saline Futures Organising Committee tasks include organisational matters, logistics and communication.

Prof. Pier Vellinga  
Conference chair  
(Waddenacademy, Netherlands)

Dr. Katarzyna Negacz  
Conference manager  
(Waddenacademy, Netherlands)

Angelica Kaus  
Director SalFar project  
(Province of Groningen, Netherlands)

Douwe van Noordenburg  
Financial Manager SalFar project  
(Province of Groningen, Netherlands)

Dr. Jeroen De Waegemaeker  
(ILVO, Belgium)

Sjerpy Moeyersoons-Joustra  
(Waddenacademy, Netherlands)

Thea Smit  
(Waddenacademy, Netherlands)
APPENDIX 1.

PARALLEL SESSIONS
Policy and Management

I  Addressing Climate Change and Food Security

10 September, 13:30 – 15:30, Room F.112

Chair: Dr. Leena Karrasch  
Dr. Anne Asselin de Williencourt

Freshwater salinisation and its drivers: A critical water quality challenge with implications for agricultural development  
– Josefin Thorslund, Michelle van Vliet

Understanding Farmers’ Perceptions of and Livelihoods Adaptation to Climate Change: Insights from the Coastal Bangladesh  
– Md. Jahangir Kabir, Donald H Gaydon, Mohammad Mainuddin, Mohammad Moniruzzaman

Delta environments: landscapes at major threat from salinity  
– Edward G Barrett-Lennard

The Effect of Climate Change Adaptation on Rural Community Livelihoods  
– Nakasaga Halima, Kabagenyi Hilder, Lukyanuszi Grace, Mbídde Robertson (presenting author: Nahubega Rose)

II  Awareness raising and capacity building for saline farming

10 September, 16:00 – 18:00, Room F.112

Chair: Dr. Sara Marjani Zadeh  
Dr. Jeroen De Waegemaeker

A Legal Perspective on the Effects and Prevention of Salinization  
– Annalies Outhuijse, Ida Helene Groninga, Tatia Brunings

– Jeroen De Waegemaeker

A vision and a strategy for mitigating and adapting to salinization of highly productive clay soils in the Netherlands  
– Mindert de Vries

Adaptive Management Strategies to Alleviate the Impacts of Saltwater Inundation on Agricultural Lands  
– Christopher F. Miller

Salinization of the coastal zone as driver for innovation in flood risk management strategy  
– Jantsje M. van Loon-Stëensma

Salinization and agriculture in the Netherlands: benchmarking stakeholder perspectives  
– Isa Camara Beauchampet
III
Food-water-energy nexus

11 September, 11:00 – 13:00, Room F.112
Chair: Dr. Anne Asselin de Williencourt
Dr. Sara Marjani Zadeh

- Salinity dynamics in river water, canal water, pond water and groundwater over the dry season in Ganges Delta
  – Afrin Jahan Mila, Richard Bell, Edward Barrett-Lennard, Enamul Kabir and Yingying Yu

- What if it becomes too saline?
  – Reinier Nauta

- The impacts of North Sea flooding to UK agriculture
  – Iain Gould, Isobel Wright, Gary Bosworth, Eric Ruto, Martin Collison, Simon Pearson

- Sustainable saline agriculture in Iran: Turning Threats into Opportunities
  – Raheleh Malekian

- The Study of South Coastal Areas Development of Iran Using Biosaline Agriculture (Haloculture)
  – Ardavan Azari

- Potentials of saline agriculture for subsistence and livelihoods of local poor communities in the Jordan Valley
  – Ziad Al-Ghazawi

IV
Fresh and brackish water management in potentially saline soils

11 September, 15:30 – 17:10, Room F.112
Chair: Dr. Eric Ruto
Dr. Leena Karrasch

- Managing salinization under climate change: using degraded irrigation waters and new technologies
  – Francisco Pedrero Saledoa, Juan José Alarcón Cabañeroa, Mango Robbenb, Huub Rijnaartsb, Pedro Javier Guillermo Lópeza

- Nine steps towards a sustainable climate-proof fresh groundwater supply: the case of Zeeland, the Netherlands
  – Oude Essink, Gualbert

- Saline groundwater seepage increase with sea level rise
  – Johan Medenblik

- Awareness raising and commitment, experiences in how to involve the farming community
  – Jouke Velstra

- The Water Farm: collaborative water system measures and governance approach to increase self-sufficiency of freshwater availability for agriculture
  – Jouke Kazema, Pieter Pauw, Marco Arts, Esther van Baaren, Melle Nikkels, Tim Moermans, Marjan Sommeijer, Vincent Klap
Experiments and promising crops

10 September, 13:30 – 15:30, Room F.129

Chair: Dr. Bas Bruning
Dr. Redouane Choukr-Allah

Quinoa, a Promising Halophyte with Modified Planting Date and Minimum Water and Pesticide Requirements for Fars province, Iran
– Rezvan Talebnejad

The study of quinoa at high salinity in the field conditions
– Muhammad Shahid

Screening of Sorghum genotypes in the coastal saline region of Bangladesh
– Md. Harunor Rashid, Mustafa Kamal Shahadat, M. Amiruzzaman and M. Akkas Ali

Multi-year evaluation field trials of Salicornia bigelovii in United Arab Emirates: prospects & challenges
– Dionysia Lyra, Hifzur Rahman, Hanza Khan and R.K. Singh

Promising crops for saline farming

10 September, 16:00 – 18:00, Room F.129

Chair: Dr. Bas Bruning
Dr. Ed Barrett-Lennard

Physiological growth and gas exchange of saffron (Crocus sativus L) in saline and deficit irrigation condition under different planting methods
– Maryam Dastranj, Alireza Sepaskhah, Seyed Mohammad Mirsafti

Tetragonia tetragonioides as a salt-tolerant crop in a saline agriculture context
– Giulia Atzori

Investigations of soils and plants from farms and field trials in South-East Norway, can make the local farmer better prepared from future episodes of sea water flooding
– Åsgeir R. Almås and Susanne Eich-Greatorex

Innovations

Experiments and promising crops

V

Promising crops for saline farming

VI
VII
Salinity adapted
cultivation strategies

11 September, 11:00 – 13:00, Room F.129

Chair: Dr. Redouane Choukr-Allah
Dr. Laurids Sig Christensen

Reducing Salinity Effect On Alfalfa (Medicago Sativa) Production Using Soil Conditioner – Case Of Lahbab Farm In Dubai
– Khalil Ur Rahman, Mohammed Khalifa Bin Thaleth and Khalfan Al Suwaidi

Crop Intensification option through zero tillage potato cultivation using mulch that improves soil properties in the south-western saline soil of Bangladesh
– Mustafa Kamal Shahadat, Md. Harunor Rashid, Farzana Jahan Juthi and Munmun Ahmed

Performance Of Intercropping Short Duration Leafy Vegetables With Elephant Foot Yam In The Coastal Area Of Bangladesh
– Md. Harunor Rashid, Mustafa Kamal Shahadat and M. Akkas Ali

Sparwater: sustainable and profitable usage of fresh water for agriculture in the Wadden Sea Region
– Jouke Velstra, Tine te Winkel, A. Oonl, S. Burger, B. de la Loma Gonzalez

Desalination of greenhouse floors
– Stephan Jung

VIII
Innovation and practical experience at farm level

11 September, 15:30 – 17:10, Room F.129

Chair: Dr. Dionysia Aggeliki Lyra
Dr. Redouane Choukr-Allah

Putting Saline Agriculture into Practise – a showcase from Bangladesh
– Arjen de Vos

Climate resilient agricultural practices in the saline prone areas of Bangladesh
– Muhammad Abdur Rahaman Rana

Modular farming approach utilizing saline water resources to enhance food and nutrition security in desert environments: two case studies in United Arab Emirates
– Dionysia Lyra and Stathis Lampakis

Saline Agriculture, Smart Water Management and Agroforestry
– Bas Brunning, Rogier van Opstal, Eric van Zandwijk

Sustainable Saline Soils Use System for Food Security and Poverty Alleviation in Ghana
– Rosemary Nunoo
Geography and Biology

IX
Revitalization of saline degraded soils

10 September, 13:30 – 15:30, Room S.110
Chair: Dr. Maria Konyushkova

The monitoring of soil salinity using remote sensing data on agricultural lands of Central Asia
– Maria Konyushkova, Tatyana Khamzina, Gulchekhra Khasankhanova, Anna Kontoboytseva, Yevgenia Pankova

A Simplified Model for Soil Salinity and Sodicity in Drylands
– Isaac Kramer, Yair Mau

Drought impacts on surface salinity levels and implications for irrigation water scarcity in the United States
– Edward Jones, Michelle T.H. van Vliet

Salinity of soil in Denmark
– Laurids Siig Christensen

Recovery opportunities and prospects for the use of degraded land in the context of structural economic and technological changes
– Mikhail Kislitkii

Revitalisation of degraded lands
– Ties van der Hoeven

X
Traits affecting salinity tolerance

10 September, 16:00 – 18:00, Room S.110
Chair: Prof. Theo Elzenga
Dr. Laurids Siig Christensen

Development and characterization of an EMS mutated wheat population and identification of salt tolerant wheat lines
– Lethin Johanna, Shakil Shabriar S.M., Hassan Sameer, Sinjovski Nick, Töpel Mats, Olsson Olof, Aronsson Henrik

OsHAK9, a potassium transporter, is essential for seed germination in rice under salt stress
– Peng Zeng, Luofeng Qian, Ting Xie, Xumei Qian, Yuqian Jiang, Zhoufei Wang, Henrik Aronsson, Jinping Cheng, Hongsheng Zhang

Genome Wide Analysis Of WRKY Transcription Factors In The Wheat Genome With Emphasis On Regulating Salt Tolerance
– Hassan Sameer, Lethin Johanna, Blomberg Rasmus, Mousavi Hesam, Aronsson Henrik

Molecular breeding of Triticum aestivum in abiotic stress
– Esteri Viitanen, Sameer Hassan, Henrik Aronsson

Effects of elevated salinity on agronomic and physiological parameters of different mutated wheat lines
– Hesam Mousavi, Johanna Lethin, Nupur Naik, Olof Olsson, Henrik Aronsson
XI
Interactions among salinity, roots and microbial communities

11 September, 11:00 – 13:00, Room S.110
Chair: Dr. Ed Barrett Lennard
Dr. Bas Bruning

Rhizobiome of resurrection plants-potential source of plant growth promoting bacteria
– Zivo Jovanovic, Svetlana Radovic, Tamara Rakic, Jelena Lozo, Djordje Fira

Endophytic fungi-mediated salinity stress tolerance in Solanum dulcamara (Bittersweet)
– Sasirekha Munikumar, J. Theo M. Elzenga, J. Dick van Elsas, N. Nataraja Karaba

Elucidation of root traits that contribute to yield stabilisation in potato under climate change
– Jan Henk Venema and J. Theo M. Elzenga

Root system architecture and grass productivity under salt stress
– L. Wang, J. Theo M. Elzenga

XII
Alternative use of salt-tolerant plants

11 September, 15:30 – 17:10, Auditory F.002
Chair: Prof. Henrik Aronsson
Dr. Laurids Sig Christensen

Evaluating crop salt tolerance from field trials at Salt Farm Texel – a new venue
– Gerrit van Straten, Arjen de Vos, Jelte Razema, Peter van Bodegom

Saline plant molecular factory for production of pharmaceuticals, functional feed, and biofuels using biorefinery technologies
– Mette Helgaard Thomsen, Tanmay Chaturvedi, Iwona Cybulka

Bio-fractionation of Salicornia bigelovii to increase the value of the green biomass
– Aslak Christiansen, Henning Jørgensen, Dionysia Lyna