Jellyfish, eelgrass and algae from the Baltic Sea -

Perspectives for use as fertilizer for agriculture and gardening




Steffen Aldag, M.Sc.
Environmental Engineer

www.hanseatischeumwelt.de | https://gojelly.eu

Interreg Baltic Sea Region
EUROPEAN REGIONAL DEVELOPMENT FUND
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Essential for agriculture in the past…

Picture source: Island of Jersey, Collection of Vraic: http://royaljersey.co.uk/about_the_rjahs/agriculture-in-jersey/

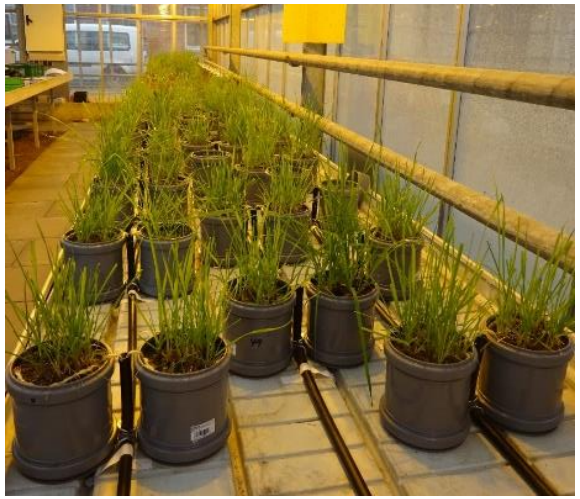
…today regarded as a nuisance

Picture: Susanne Karkossa-Schwarz

Picture: Martin Staemmler

Jellyfish as fertilizer – key findings GoJelly

- Jellyfish has comparable fertilizing effects as mineral fertilizer
- Processing energy intensive (drying/desalination)
- Composting of fresh JF promising



Kiel University
Christian-Albrechts-Universität zu Kiel

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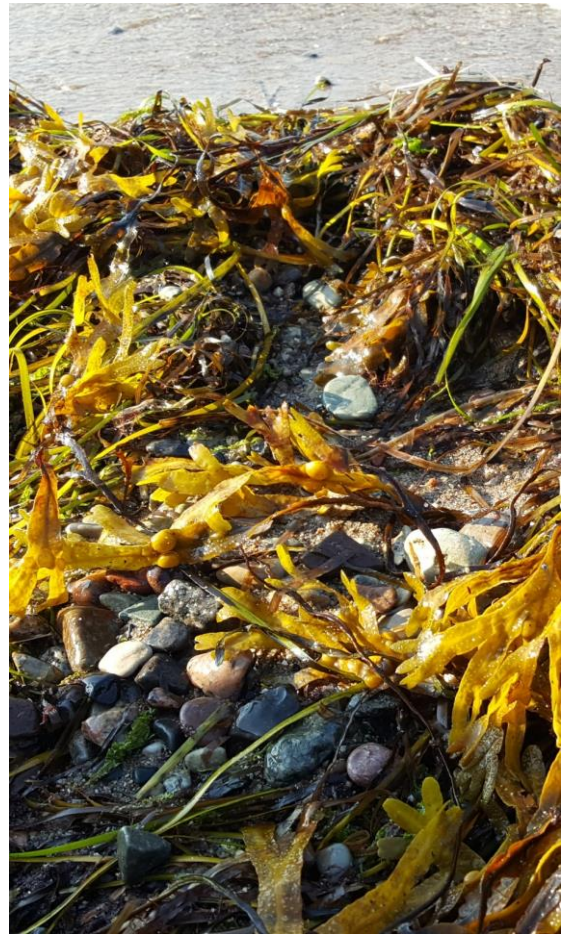
Macro-algae as fertilizer

- Alginic acid are well known for positive effects on several growing parameters of plants
- Fertilizer, soil conditioner on the market
- Usually targeted harvest – no waste material used (France, UK, Norway)
- Availability is site specific in the Baltic region (hard substrate needed)

Beach wrack/ cast – mixture washed ashore

- Eelgrass, algae, mussels, wood , sand…
- Use in agriculture for thousands of years
- Today a nuisance for involved municipalities
- Beach wrack is regarded as biowaste
- Partly spread on fields
- Co-composted with green cut



SME-Perspectives using marine biomass in the Baltic Region

- Availability during the season
- Quality management
- Waste management
- Regulations limiting the access

Co-composting of **marine biomass** is the most promising (recycling) solution and has the highest market readiness

Principals of co-composting of marine biomass

Raw materials **Process** **Application**

Agriculture

Soil products

Markets for co-composted marine biomass

Gardening

Agriculture

Picture: Ludwig Volk: https://www.wochenblatt-dlv.de/

Sustainable products need sustainable packaging

Novel soil products based on marine biomass

Jellyfish-Compost

Algae Compost

available in retail stores

Baltic Black Soil

available in retail stores

Philosophy & Claim

100 % natural resources from **land** and **sea**

Interested? Questions?

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Contact

Steffen Aldag, M.Sc.

Project Engineer

Hanseatische Umwelt CAM GmbH

D-18233 Biendorf

Phone: +49 38294 160 12

e-mail: steffen.aldag@hanseatischeumwelt.de

www.hanseatischeumwelt.de

www.staemmler-erden.de

https://gojelly.eu/