

WCRP Lighthouse Activities



WCRP is performing several consultations as part of its new WCRP implementation plan, and the input from its core projects is essential. GEWEX and the other core WCRP programs have been requested to provide nominees to be part of the task teams that will develop the proposed Lighthouse Activities (LHA) science plans. LHA are intended to be:

- Major experiments, high-visibility projects, infrastructure building blocks
- Activities that truly bring together the capabilities (scientific, technical, infrastructure) from across the whole of WCRP and with partners.

The initial provisional Lighthouse Activities were developed during the Hamburg February 2020 workshop, <https://bit.ly/2C71Dcf>

Provisional Name of Lighthouse Activity	Objective
Explaining and predicting Earth System Change	To design, and take major steps toward delivery of, an integrated capability for quantitative observation, explanation, early warning, and prediction of Earth System Change on global and regional scales, with a focus on multi-annual to decadal timescales. https://bit.ly/2Pys11N
My Climate Risk	To develop a new framework for assessing and explaining regional climate risk to deliver climate information that is meaningful at the local scale. https://bit.ly/3a851QB
Safe Landing Climates	To explore the routes to climate-safe landing 'spaces' for human and natural systems, on multi-decadal to centennial timescales; connecting climate, Earth system, and socio-economic sciences. Explore present-to-future "pathways" for the achievement of key Sustainable Development Goals. https://bit.ly/3a63b2G
Digital Earths	To develop a digital and dynamic representation of the Earth system, optimally blending models and observations, to enable an exploration of past, present, and possible futures of the Earth system. https://bit.ly/33BFTAz
WCRP Academy	To establish one or more targeted capacity exchange climate programmes, working with one or more of the other lighthouses and established climate education providers, including universities. (Outline still to be developed)

We are seeking (self-)nominations from GEWEX community members to join the teams charged with developing the respective full Lighthouse Activity Science Plans. As the table shows, there are five LHA ready to advance to this step, which means we need to nominate up to 10 from our community to support this task (i.e. 2 per Lighthouse). ***We are in particular looking for under represented groups and early/mid career scientists!!***

Please provide a short paragraph explaining the rationale for your nomination and include your name, the LHA you are interested in, home nation, and if you are an Early or Mid-Career researcher.

Send the nomination to: Peter van Oevelen (gewex@gewex.org). We will receive self-nominations **until 31st August, 2020**.

Kind regards,

Peter van Oevelen
Jan Polcher
Graeme Stephens