

**LETTER OF INTENT BETWEEN THE NATIONAL INSTITUTE FOR
SPACE RESEARCH (INPE) AND THE UNIVERSITY CORPORATION
FOR ATMOSPHERIC RESEARCH**

THE NATIONAL INSTITUTE FOR SPACE RESEARCH (hereinafter: "INPE"), a research unit of the Ministry of Science, Technology and Innovation (hereinafter: "MCTI"), registered with CNPJ / MF under number 01.263.896/0005-98, established at 1758 dos Astronautas Avenue, São José dos Campos, Sao Paulo, Brasil,, Zip code 12227-010, qualified as a Scientific, Technological and Innovation Institution (hereinafter "ICT"), pursuant to Law Nr. 10,973 / 04, hereinafter referred as **INPE**, in this act represented by its Director, Dr. Clezio Marcos De Nardin, appointed by Ordinance Nr. 3,782, of October 1st, 2020, published in the D.O.U. of October 2nd, 2020, holder of Identity Card Nr. ***.817.277-* - SSP/SP and CPF Nr. ***.545.830-**.

The University Corporation of Atmospheric Research (acting on behalf of the National Center for Atmospheric Research; hereinafter: UCAR) with headquarters at 3375 Mitchell Lane, Boulder, Colorado, USA, represented by Anna Thomas, UCAR contracts manager, recognizing:

- a) that INPE conducts scientific research, technological development, operational activities, and training of human resources in the fields of Space science and Atmosphere, Earth Observation, Weather Forecast and Climate Studies, Space Engineering and Technology and related areas of knowledge, according to the policy defined by the Ministry.
- b) that UCAR manages the National Center for Atmospheric Research and conducts scientific research in the fields of climate, weather, atmospheric chemistry, space science and related areas.
- c) that INPE and UCAR, hereinafter called the **PARTIES**, share certain common interests and priorities and therefore in a coordinated manner and by mutual agreement, express the intention to discuss:

The development of configurations and extensions of MPAS-A for numerical weather prediction, regional climate, and climate applications, including both regional and global configurations. This includes dynamics, physics, and land model components, chemistry and aerosols, data assimilation, coupling with other geophysical models, diagnostics and post-processing, and computational techniques including AI.

RESOLVE to establish this PROTOCOL OF INTENT, taking into account the following conditions:

- 1) Both Parties commit themselves to combine efforts to complement their experiences in areas of common interest, without prejudice to their individual

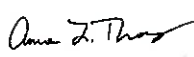
and independent actions. Therefore, the provisions outlined in this Letter of Intent will not create any legally binding obligations between the Parties.

2) For the future execution of projects and activities related to this Letter of Intent, the participants will prepare Work Plans, which must be implemented through Agreements or other similar instruments for each project.

3) The execution of this Letter of Intent will not incur additional costs for both Parties and, if there is a need to transfer financial resources, the Parties may sign a specific instrument for this purpose.

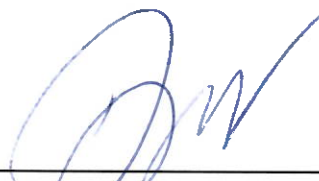
4) This Letter of Intent will come into effect as of the date of its last signature and will remain in effect for 24 (twenty-four) months and may be terminated in advance, through written notice, with 30 (thirty) days in advance, from one Party to another or by mutual agreement.

Signed in English and shall be translated to Portuguese versions. In case of divergence or for dispute resolution purposes, the English version will be used, and in witness of:


Anna L.
Thomas
2023.06.29
14:22:37 -06'00'

Anna L. Thomas
Contract Manager, UCAR Contracts

6 / 29 / 2023


Clezio Marcos De Nardin
Director

3 / 11 / 23