MĀTAURANGA

Mātauranga Māori spans Māori knowledge, culture, values and world view.

Pūrākau and maramataka, forms of mātauranga Māori, comprise knowledge generated using methods and techniques developed independently from other knowledge systems.

Mātauranga Māori includes knowledge generated using techniques consistent with the scientific method, but explained according to a Māori world view.

Accurate, precise, reliable

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SHORT COMMUNICATION

Mātauranga Māori—the ūkaipō of knowledge in New Zealand

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ABSTRACT

Mātauranga Māori spans Māori knowledge, culture, values and world view. Pūrākau and maramataka, forms of mātauranga Māori, comprise knowledge generated using methods and techniques developed independently from other knowledge systems. Hitherto mostly ignored or disregarded by the science community because it seemed to be myth and legend, fantastic and implausible, mātauranga Māori includes knowledge generated using techniques consistent with the scientific method, but explained according to a Māori world view. Acknowledging this extends the history of scientific endeavour back to when Māori arrived in Aotearoa and Te Wai Pounamu, many centuries ago.

TUHINGA-WHAKARĀPOPOTO

Ka whārikitia te mātauranga Māori ki te ahurea Māori, ki ngā uaratanga me te ao mārama. Ko te pūrākau me te maramataka, he momo puna mātauranga anō hoki i waihangatia e ngā tikanga me ngā tāera i whakawhanake motuhake ai, hāunga i ērā atu mātauranga kē. Mai rāno kua pīhia kua takahia rānei te mātauranga Māori e te hāpori pūtaiao hei mea whakateka noa ho hei kōrero huakore. I te mea hoki, kua waihanga ai tēnei mātauranga (Māori) i ngā tikanga ōrite pū ki ngā tāera-ā-pūtaiao, ēngari ka whakamāramatia kētia e te ao mārama. Mā te whakamana pū o tēnei whakaaro, kātahi ka whakahokia te tino whakapapa o te pūtaiao, ki te wā i tau mai ai ngā waka whakapata o ngā mātua tīpuna ki Aotearoa ki Te Waipounamu, i ngā rautau ki muri.

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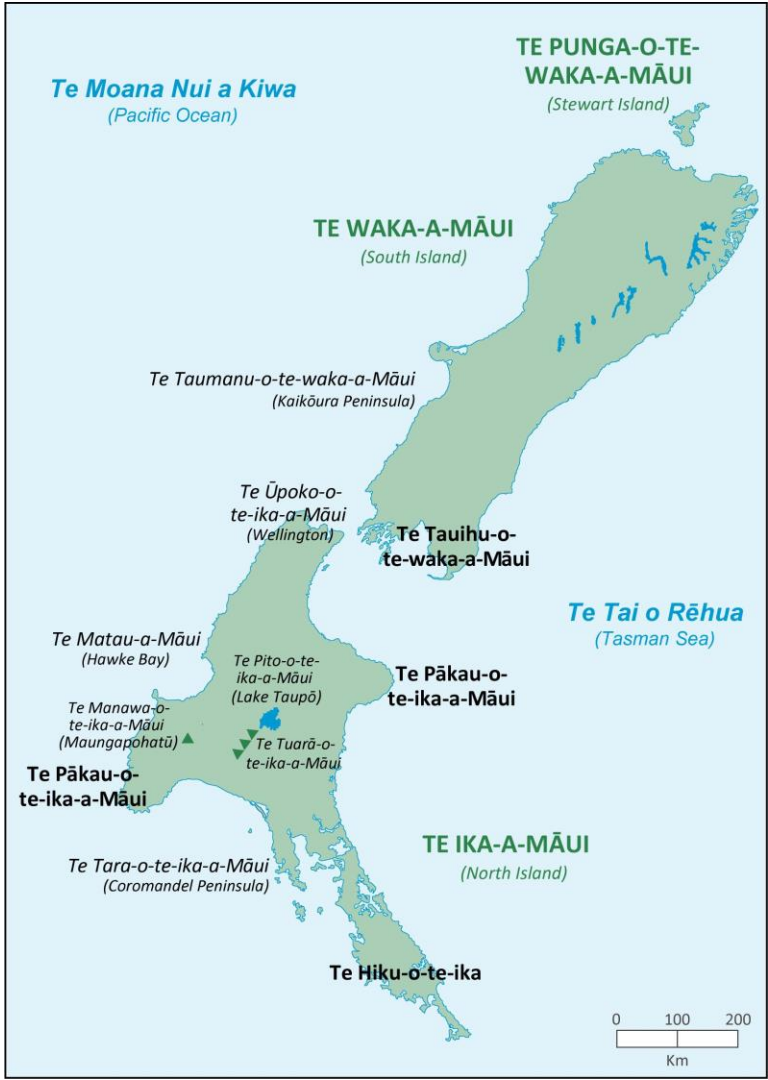
History of science; knowledge systems; maramataka; pūrākau; scientific method; world view

TINO-KUPU
Te Whakapapa o te Pūtaiao; pūnaha mātauranga; maramataka; pūrākau; tāera-a-pūtaiao; te ao marama

PŪRĀKAU

- Integral part of mātauranga Māori
- Deliberate constructs employed to encapsulate and condense into easily understood forms, Māori views of the world, of ultimate reality and the relationship between the atua (deities), the universe and humans
- Fundamental to understanding the world
- Codified knowledge
- Metaphorical and literal
- Accurate, precise, reliable



Waikato River in flood, Meremere, Waikato Times

NATIONAL ADAPTATION PLAN

The National Adaptation Plan explicitly acknowledges Māori as:

- decision-makers,
- landowners,
- leaders in climate resilience.

It commits to actions that protect:

- marae,
- urupā,
- mahinga kai,
- other culturally significant sites

from climate impacts like flooding and sea-level rise.

EPA MĀTAURANGA FRAMEWORK

Mātauranga is the pursuit of knowledge and understanding of Te Taiao – the natural environment – following a systematic methodology based on evidence, and incorporating culture, values and world view.

Reliable, accurate, precise.

Mātauranga framework means of probing veracity of mātauranga.

WETLANDS & NATIVE FORESTS

Critical role in **Adaptation** & **Mitigation**

Wetlands & Native Forests as **Carbon Sinks**

Wetlands & Native Forests as **Natural Buffers**

<u>Healthy ecosystems are our best solution</u>

WATER AS TAONGA

At first Ranginui the sky father and Papatūānuku the earth mother were one being, locked together, and as their children were born they lay cramped between them, living in darkness. Frustrated and constricted, they decided to separate their parents, and one after another they tried until at last Tāne, the ancestor of forests, lay on his back and pushed them apart. As Rangi wept for his wife, Papatūānuku sent up mists to greet him, and Rangi's tears became rivers and lakes, bringing life to the land (Te Rangikaheke, 1849).

Puna on Waihou awa

MĀTAURANGA

Cliff Whiting