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A novel strategy to analyse the form drag on pressure ridges and the air-ice drag coefficient in the north-western Weddell Sea

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**Highlights**

- A novel strategy for the form drag considering ridge morphologies and ice surface roughness is proposed
- A novel strategy for drag coefficient considering ridge morphologies and ice surface roughness is proposed
- The related conclusions of the form drag and drag coefficient is proved
- The variations of form drag and drag coefficient with ridging intensity and ice surface roughness is analyzed

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