Jeu de données températures en ville
Urban Temperatures

- Urban Heat Island (UHI) is a very sensitive phenomenon with bad consequences on
  - Human health, ecology, attractivity, ...

- Understanding, Mapping & Forecasting UHI is a critical issue

Source: [www.worldatlas.com](http://www.worldatlas.com)
Urban Temperatures

• As already mentioned, UHI is closely related to urban morphology (Local Climate Zones concept for example)

(Steward & Oke, 2012)
Urban Temperatures

As already mentioned during sessions, UHI is closely related to urban morphology (Local Climate Zones concept for example)

This contest: spatialize urban temperature from some local observations

(Steward & Oke, 2012)
Current goals

Observations
Current goals

Observations

Position to estimate
Current goals

- Observations
- Position to estimate
- Local “buffer”
Current goals

\[ T(t) = f(\text{local buffers}, T(t-n)) \]
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Contest

Hyperspectral Bi-spectral LiDAR
Contest – JURSE 2019

8 runs

Best temperature map at 6am
Contest – JURSE 2019

Matthew Gibson
Temporal Gaussian Process

Best temperature map at 6am
Future: more data (validation, VHSR) and more cities! Any ideas?

Data & Uploads: (still open)