Atmospheric fields

u level 1
u level 2
....

z level 1
z level 2
....

Dimensionality reduction

Conv2D
input: (None, 32, 64, 40)
output: (None, 32, 64, 32)

MaxPooling2D
input: (None, 32, 64, 32)
output: (None, 16, 32, 32)

MaxPooling2D
input: (None, 16, 32, 32)
output: (None, 8, 16, 32)

Conv2D
input: (None, 8, 16, 32)
output: (None, 8, 16, 32)

UpSampling2D
input: (None, 8, 16, 32)
output: (None, 16, 32, 32)

Conv2D
input: (None, 16, 32, 32)
output: (None, 16, 32, 32)

UpSampling2D
input: (None, 16, 32, 32)
output: (None, 32, 64, 32)

Dimensionality increase

Atmospheric fields
1-14 d later

u level 1
u level 2
....

z level 1
z level 2
....

Dimensionality increase

Conv2D
input: (None, 32, 64, 32)
output: (None, 32, 64, 40)

MaxPooling2D
input: (None, 64, 128, 40)
output: (None, 64, 128, 32)

MaxPooling2D
input: (None, 64, 128, 32)
output: (None, 32, 64, 32)

MaxPooling2D
input: (None, 32, 64, 32)
output: (None, 16, 32, 32)

MaxPooling2D
input: (None, 16, 32, 32)
output: (None, 8, 16, 32)

conv2D
input: (None, 8, 16, 32)
output: (None, 8, 16, 32)

UpSampling2D
input: (None, 8, 16, 32)
output: (None, 16, 32, 32)

Conv2D
input: (None, 16, 32, 32)
output: (None, 16, 32, 32)

UpSampling2D
input: (None, 16, 32, 32)
output: (None, 32, 64, 32)

Conv2D
input: (None, 32, 64, 32)
output: (None, 32, 64, 40)

Atmospheric fields