This is a README file of a paper written by T.Izumi et al., entitled as "Supermassive black hole feeding and feedback observed on sub-parsec scales".

There are three .zip archives as follows, which were used for our dynamical modelings.
1) Generated_FITS_files.zip
2) 3DBarolo_input.zip
3) 3DBarolo_output.zip
Please refer to the following for further explanations.

1) Generated_FITS_files.zip
This includes 3D line cubes of CO(J = 3–2), HCN(J = 3–2), [C I] 3P1–3P0, H36α (both high and low as described in this document), as well as the continuum maps of ALMA Band 6, 7, and 8 observations. Details are described in the Supplementary Materials document of the paper. These line cubes were used for our dynamical modeling with the 3DBarolo code.

2) 3DBarolo_input.zip
There are three pairs of files (initial_file_LINENAME.par + input_LINENAME.txt) for LINENAME = CO, C I, and HCN, which are used for our 3DBarolo modelings. The parameter file (*.par) includes the list of parameters for the modeling (some are fixed, and some are set free to fit). Our initial guesses for some parameters are contained in the input file (*.txt). See details for how to run the 3DBarolo in the reference (32) of the main paper (that is Di Teodoro & Fraternali 2015, MNRAS, 451, 3021) and the dedicated website of 3DBarolo (https://editeodoro.github.io/Bbarolo/).

3) 3DBarolo_output.zip
This includes three pairs of output parameter files and output maps of our 3DBarolo modelings. See more detailed explanations of the parameters in the reference (32) of the main paper. The output maps are the 0th, 1st, and 2nd moment maps of CO(J = 3–2), HCN(J = 3–2), [C I] 3P1–3P0, respectively.