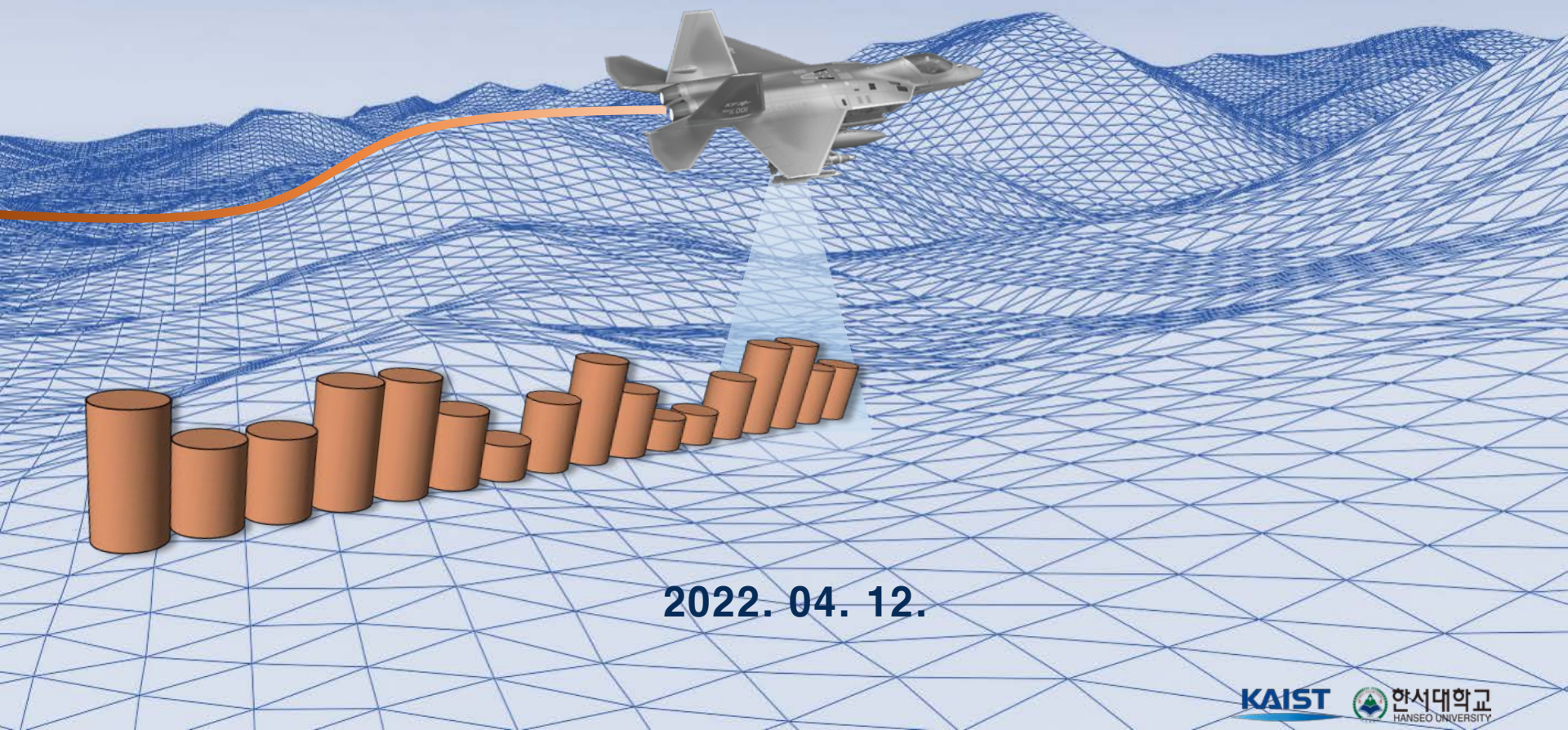


디지털지형항법 소프트웨어 FTG V1 실행방법 매뉴얼 (DTNS)

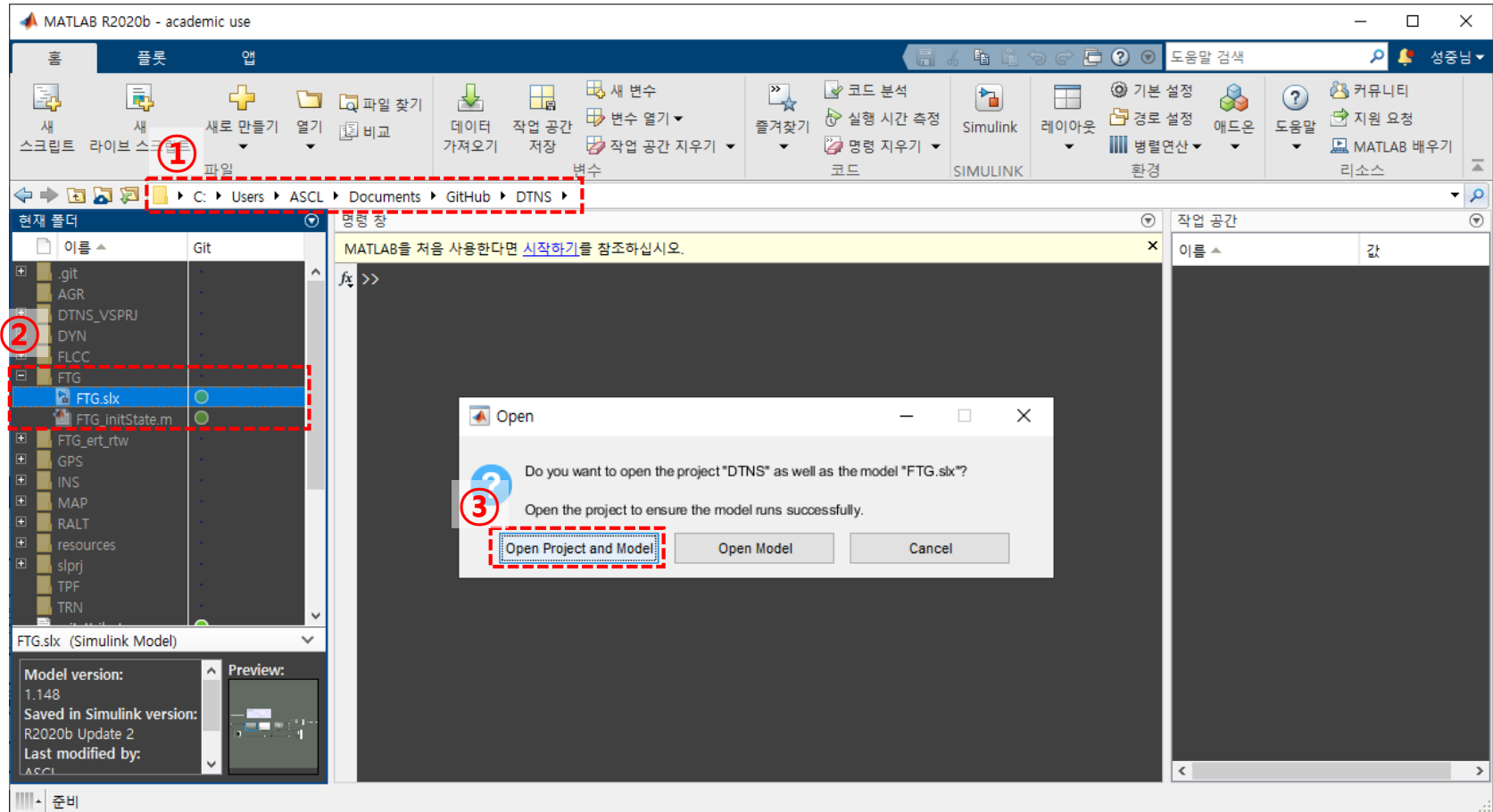


2022. 04. 12.

1. 실행방법

- MATLAB 실행

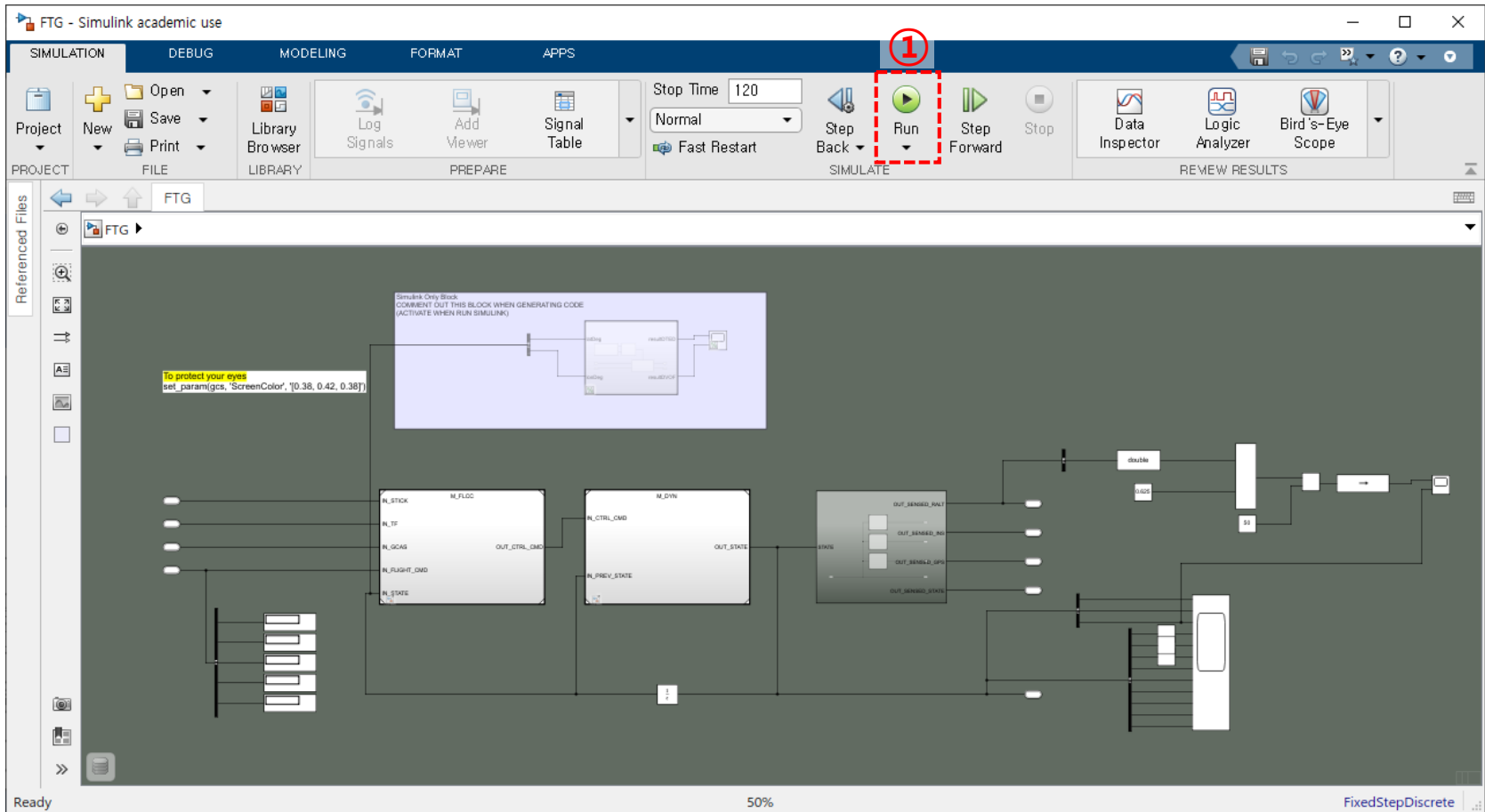
- 1) MATLAB 현재 경로를 DTNS(FTG) 프로젝트 경로로 설정
- 2) 하위폴더(\FTG) 선택하여 FTG.slx 실행
- 3) “Open Project and Model” 선택



1. 실행방법

- FTG.slx 최상위 실행 화면

- 1) 실행 버튼 확인
- 2) 최초 실행시 컴파일에 1~2분 시간이 소요될 수 있음



1. 실행방법

- FTG.slx 입력변수 조작
 - 1) MATLAB 작업공간 확인
 - 2) 변수 탭 확인
 - 3) 수정 원하는 입력변수 선택하여 시계열 데이터 입력

The screenshot shows the MATLAB R2020b - academic use interface. The main window displays the '변수' (Variables) tab for the 'FTGScenario' variable. A red dashed box highlights the '1x1 Dataset' section, which contains a table of input variables. A red circle with the number '2' is placed over the 'Dataset' header. Another red circle with the number '1' is placed over the 'FTGScenario' variable in the workspace on the right.

인덱스	값	이름	BlockPath	클래스
1	1x1 struct	IN_Stick		struct
2	1x1 struct	IN_TF		struct
3	1x1 struct	IN_GCAS		struct
4	1x1 struct	IN_FLIGHT_CMD		struct

Workspace (작업 공간):

이름	값
BUS_DYN_STATE	1x1 Bus
BUS_FLCC_CTRL_CMD	1x1 Bus
BUS_FLCC_FLIGHT_CMD	1x1 Bus
BUS_FLCC_FLIGHT_CM...	1x1 struct
BUS_FLCC_GCAS_CMD	1x1 Bus
BUS_FLCC_STICK	1x1 Bus
BUS_FLCC_TF_CMD	1x1 Bus
BUS_SENSOR_GPS	1x1 Bus
BUS_SENSOR_INS	1x1 Bus
BUS_SENSOR_RALT	1x1 Bus
FTGScenario	1x1 Dataset
InitState	1x1 struct
listing	27x1 struct

Model version: 1.148
Saved in Simulink version: R2020b Update 2
Last modified by: ASCI

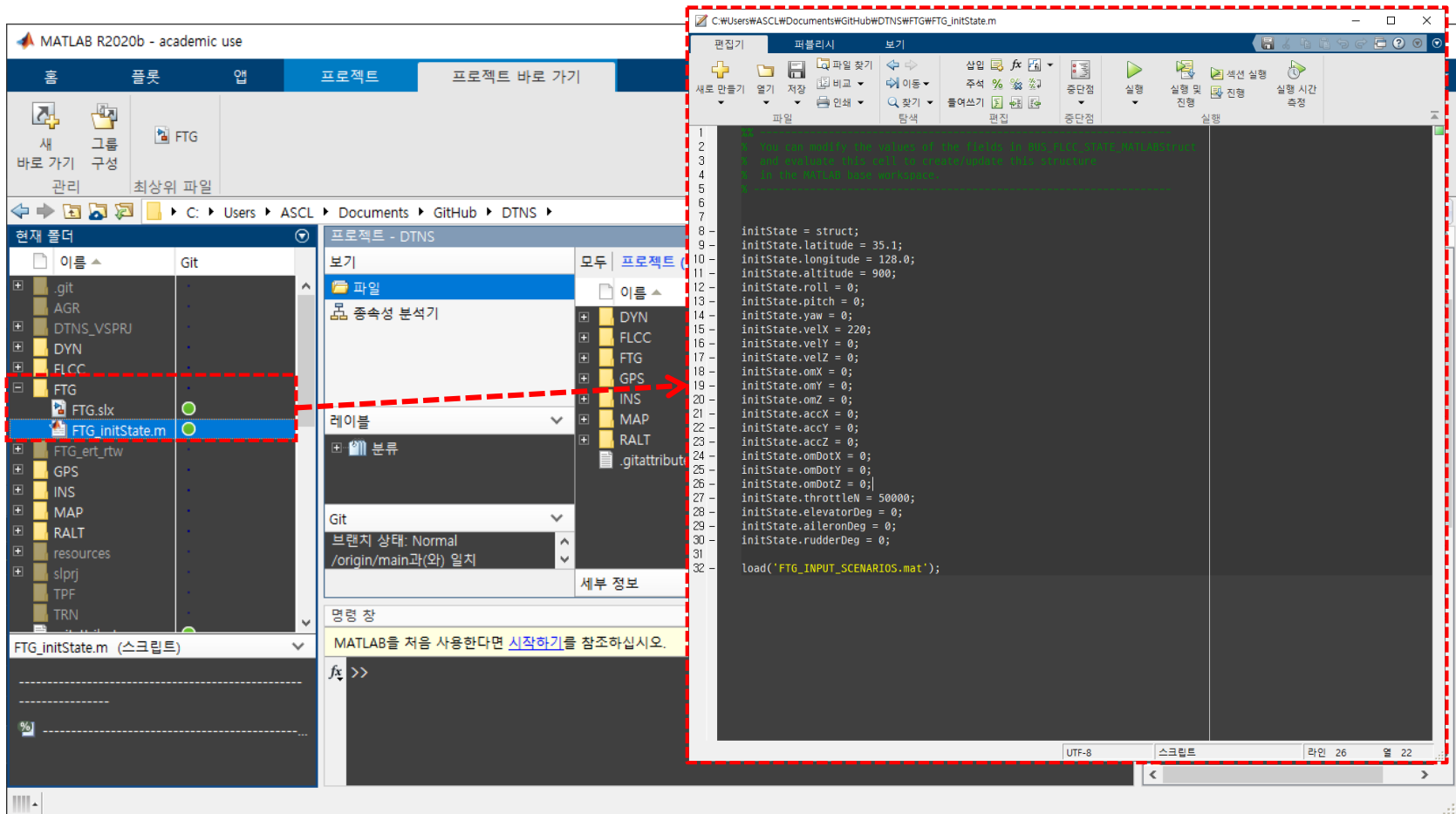
1. 실행방법

- FTG.slx 입력변수 조작
 - 1) MATLAB 작업공간 확인
 - 2) 변수 탭 확인
 - 3) 수정 원하는 입력변수 선택하여 시계열 데이터 입력

The screenshot shows the MATLAB R2020b - academic use interface. The 'Variables' tab is active, displaying the 'FTGScenario(4).targetLat' variable. The 'Time Series Name' is 'targetLat'. The 'Time' column shows values 0 and 30, and the 'Data' column shows values 35.1000 and 35.1000. A red dashed box highlights the 'Data' column, and a red circle with the number 3 is placed next to it, indicating the step to input time series data. The 'Variables' list on the right includes 'BUS_DYN_STATE', 'BUS_FLCC_CTRL_CMD', 'BUS_FLCC_FLIGHT_CMD', 'BUS_FLCC_FLIGHT_CM...', 'BUS_FLCC_GCAS_CMD', 'BUS_FLCC_STICK', 'BUS_FLCC_TF_CMD', 'BUS_SENSOR_GPS', 'BUS_SENSOR_INS', 'BUS_SENSOR_RALT', 'FTGScenario', 'initState', and 'listing'. The 'FTG.slx (Simulink Model)' window is visible at the bottom left, showing the model version 1.148 and the saved version R2020b Update 2. The 'Preview' window shows a Simulink block diagram.

1. 실행방법

- 초기 항공기 상태값 제어
 - FTG_initState.m 스크립트 수정 후 재실행



1. 실행방법

• 실행결과 확인

- 1) bus selector 블록으로 원하는 결과 데이터 추출
- 2) scope 블록으로 결과 데이터 그래프 도시

