Raster inputs (these have been accessed in June 2018 unless noted otherwise)

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| Data | Details | Source |
| Crop yield and harvested area | 5 arcmin,  175 crops-same as GTAP,  circa 2000,  area provided as fraction of land area in grid cell | Monfreda et al., 2008;  http://www.earthstat.org/data-download/ |
| Cropland physical extent | 5 arcmin,  circa 2000,  provided as fraction of land area in grid cell | Ramankutty et al., 2008;  http://www.earthstat.org/data-download/ |
| Irrigated and rainfed crop harvested area | 5 arcmin, hectares,  26 crop classes,  circa 2000 | Portmann et al., 2010;  https://www.uni-frankfurt.de/45218031/data\_download/ |
| Crop water footprint data | 5 arcmin, mm/yr,  18 crop types,  3 water types,  circa 2000 | Mekonnen and Hoekstra, 2011;  http://waterfootprint.org/en/resources/ water-footprint-statistics/ |
| Fraction of land area in grid cell for crop and water footprint data above | 5 arcmin,  spherical earth with  WGS84 mean radius | D. Plouff and N. Ramankutty provided these data corresponding to the above cropland data (in late 2013). Note that these are the same data used to provide the area values in the current crop yield and harvested area data above |
| Potential vegetation | 5 arcmin,  thematic,  15 vegetation types, circa 2000 if no historical land use had occurred | Ramankutty and Foley, 1999;  http://www.earthstat.org/data-download/ |
| Land use area | 5 arcmin, km2,  1700-2016 (decadal up to 2000),  HYDE 3.2.000 baseline,  12 land use types | Klein Goldewijk et al., 2017;  ftp://ftp.pbl.nl/hyde/hyde3.2/2017\_beta\_release/ |
| Land area in grid cell | 5 arcmin, km2,  circa 2000,  spherical earth with WGS84 mean radius,  with Greenland and several arctic islands added based on fraction of land area in grid cell for crop area and potential vegetation;  this is the working grid | Klein Goldewijk et al., 2017;  ftp://ftp.pbl.nl/hyde/hyde3.2/2017\_beta\_release/ |
| Total grid cell area | 5 arcmin, km2,  spherical earth with WGS84 mean radius,  with Greenland and several arctic islands added based on fraction of land area in grid cell for crop area and potential vegetation;  this is the working grid | Klein Goldewijk et al., 2017;  ftp://ftp.pbl.nl/hyde/hyde3.2/2017\_beta\_release/ |
| 234 Country boundaries | 5 arcmin,  from VMAP0 vector data (the source of FAO country boundaries),  added East Timor from the Timor-Leste Geographic Information Group,  and merged some countries to reflect FAO data | VMAP0: http://gis.ess.washington.edu/data/raster/GlobalData/ (last accessed in 2013, now restricted to UW, but these data are currently available in four parts at http://gis-lab.info/qa/vmap0-eng.html);  East Timor: https://sites.google.com/site/gigtimorleste/home |
| Original AEZ boundaries | 5 arcmin,  1961-1990 data,  160 country boundaries,  GTAP Land Use Database, Release 2.1 | Lee et al., 2005; Lee et al., 2009; Monfreda et al., 2009; https://www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=1900 |
| Output Geographic Land Unit (GLU) boundaries | 5 arcmin,  thematic,  235 water basins | Developed for the water module of the Global Change Assessment Model, aggregated from a 1/8-degree global watershed data set |
| Land cover area data | half-degree,  1800-2016 (decadal up to 2000),  23 land cover types,  fraction of grid cell and grid cell area | Meiyappan and Jain, 2012;  Produced specifically for Moirai using HYDE 3.2.000 data;  alternate public version available here: https://www.atmos.illinois.edu/~meiyapp2/datasets.htm |
| Protected land area | 5 arcmin,  thematic,  protected or not-protected | Derived from a previous version of the World Database on Protected Areas;  (current version available at: https://www.iucn.org/theme/protected-areas/our-work/world-database-protected-areas) |