Figure S1: Satellite images for flights M191 – M198 from AVHRR Channel 1, visible. Red circles indicate approximate area of flight track.
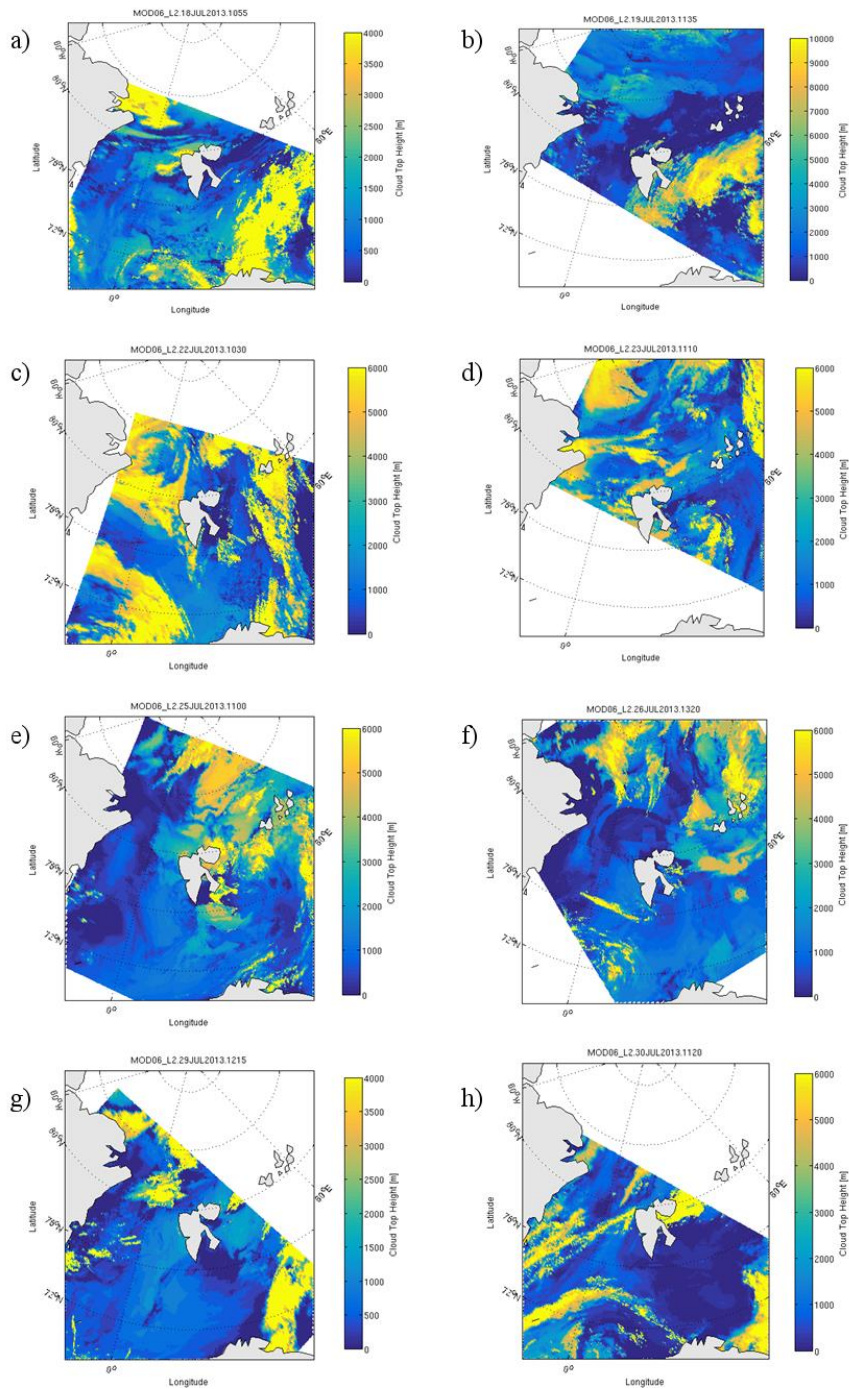
Figure S2: Cloud top height MODIS satellite retrievals shown for all flights. Note that the colorbar maximum value has been capped in all cases to allow structures to be seen clearly.
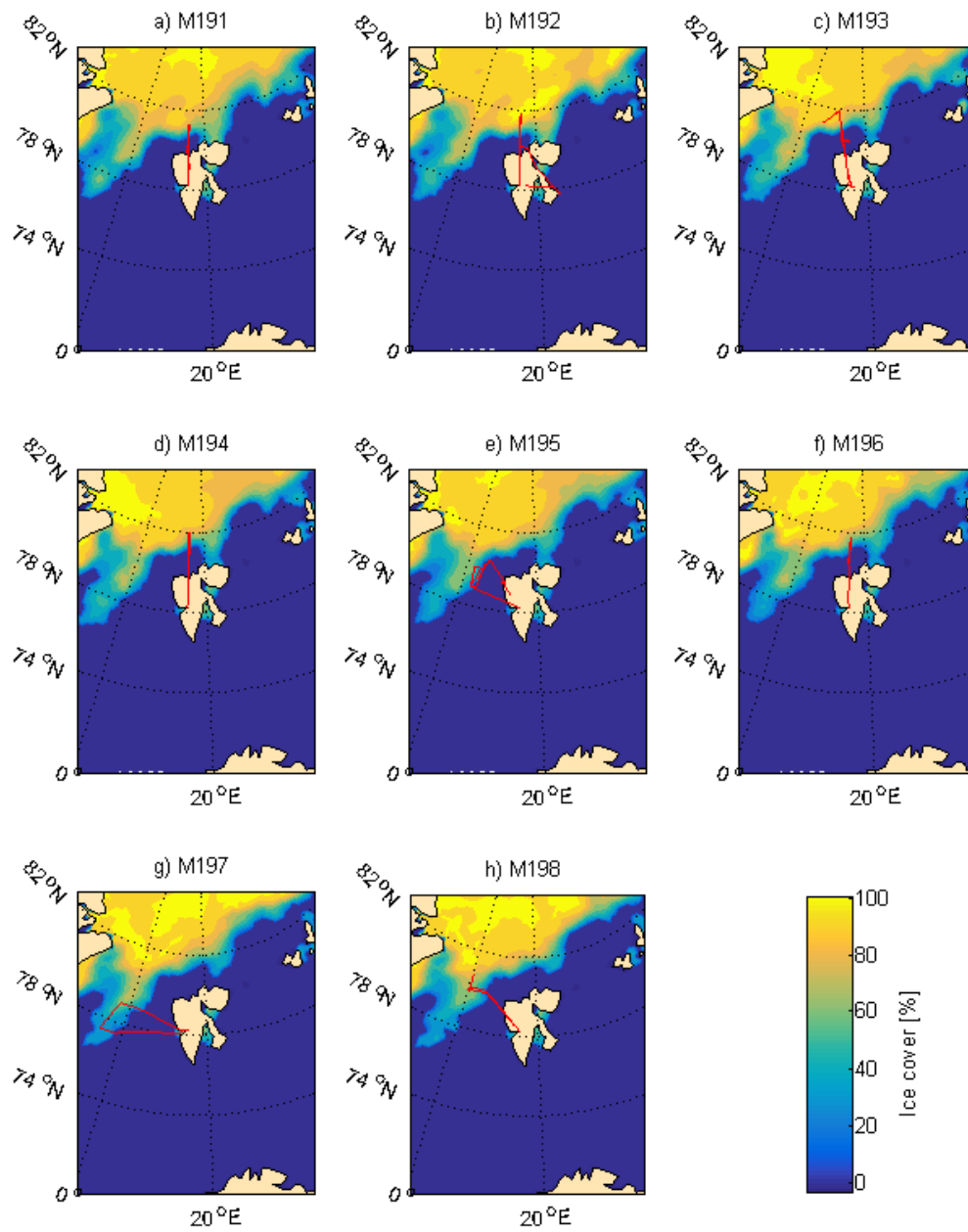
Figure S3: Flight track of MASIN aircraft for all 8 science flights. Also shown is the sea-ice cover (see colorbar) from NSIDC data.